

Subject: mechanics of materials

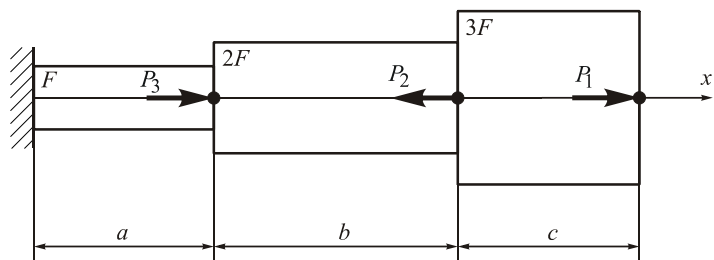
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 1

Complexity: 1



Given:  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

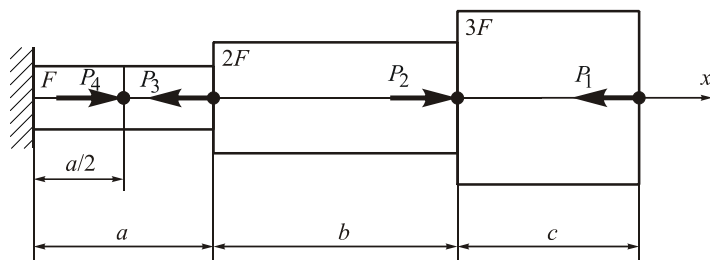
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 2

Complexity: 2



Given:  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

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Subject: mechanics of materials

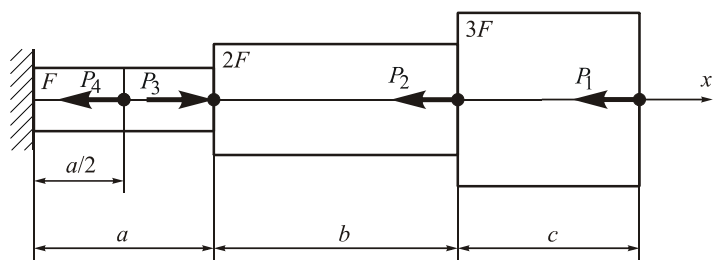
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 3

Complexity: 2



Given:  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

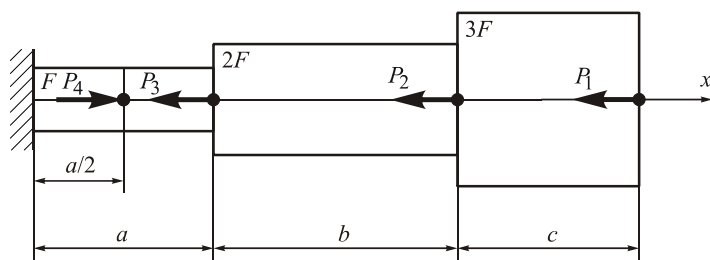
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Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 4

Complexity: 2



Given:  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

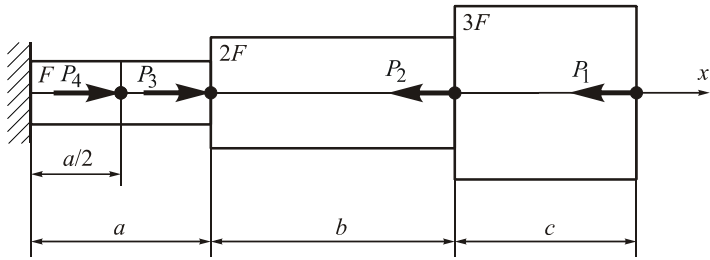
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 5

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

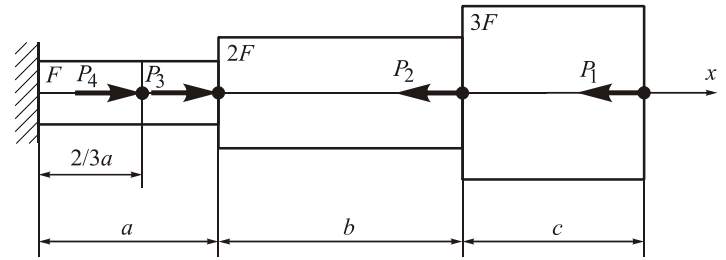
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 6

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

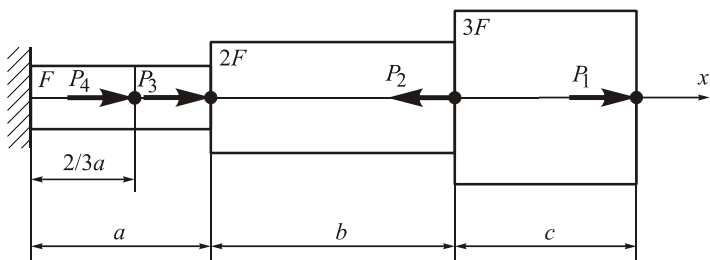
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 7

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

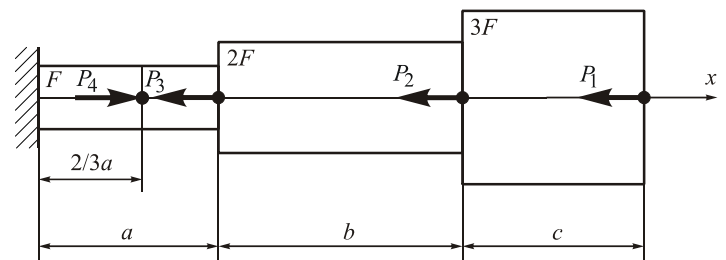
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 8

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

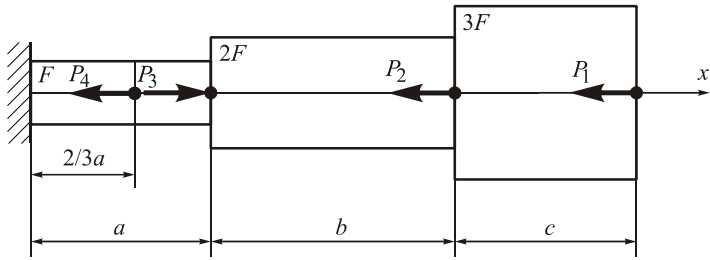
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**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 9

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

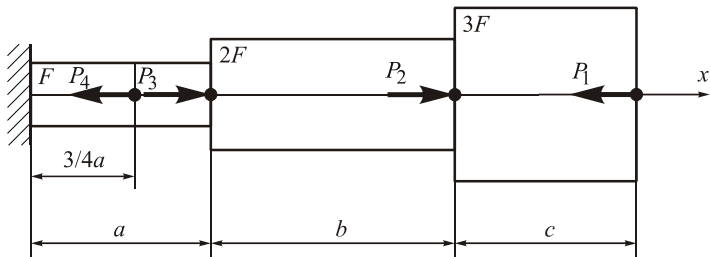
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**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 11

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

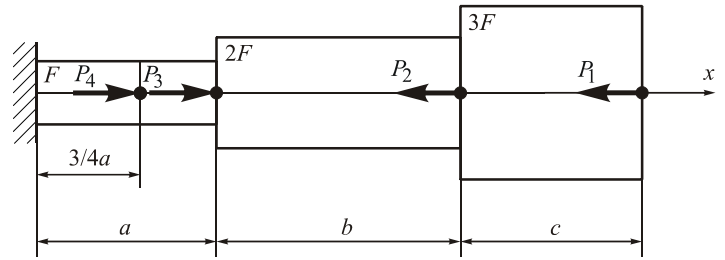
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 10

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

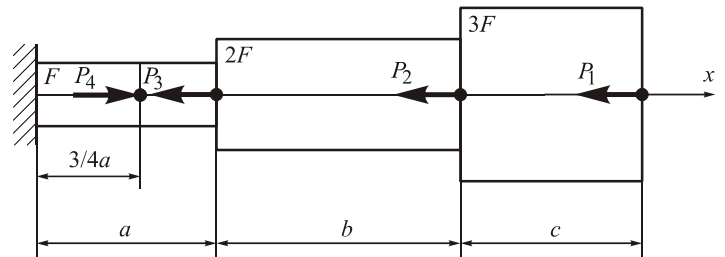
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**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 12

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

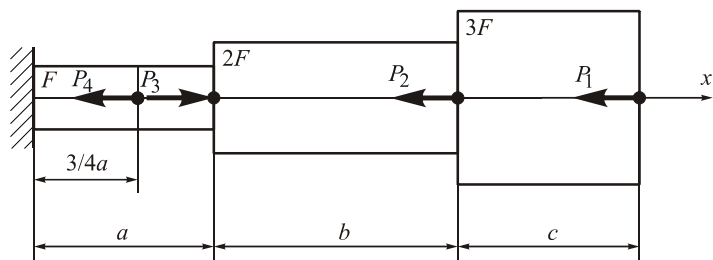
Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

**Variant: 13** **Complexity: 2**



**Given:**  $P_1 = 20 \text{ kN}$ ,  $P_2 = 40 \text{ kN}$ ,  $P_3 = 100 \text{ kN}$ ,  $P_4 = 80 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

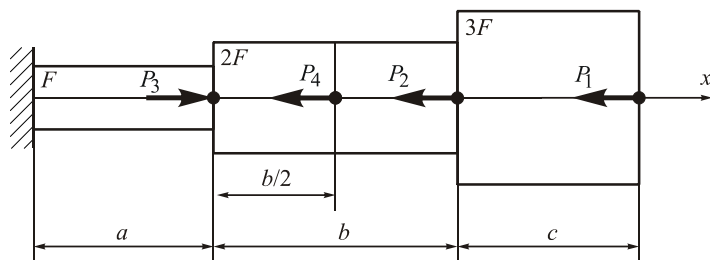
Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

**Variant: 14** **Complexity: 2**



**Given:**  $P_1 = 20 \text{ kN}$ ,  $P_2 = 40 \text{ kN}$ ,  $P_3 = 100 \text{ kN}$ ,  $P_4 = 80 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

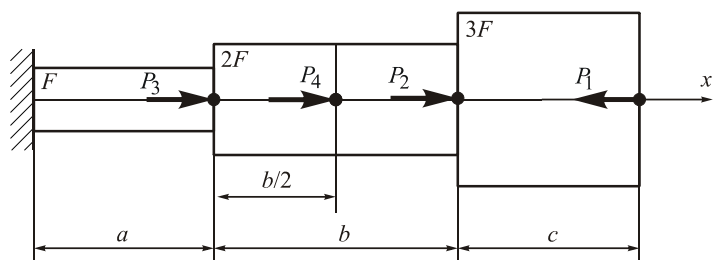
Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

**Variant: 15** **Complexity: 2**



**Given:**  $P_1 = 20 \text{ kN}$ ,  $P_2 = 40 \text{ kN}$ ,  $P_3 = 100 \text{ kN}$ ,  $P_4 = 80 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

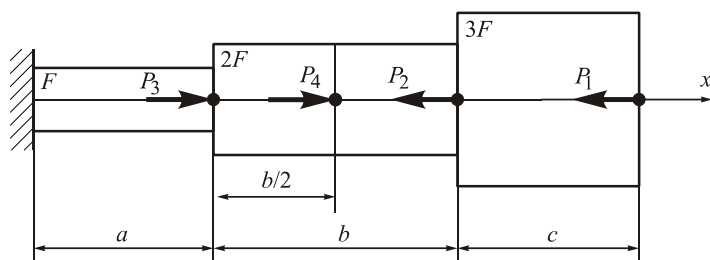
Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

**Variant: 16** **Complexity: 2**



**Given:**  $P_1 = 20 \text{ kN}$ ,  $P_2 = 40 \text{ kN}$ ,  $P_3 = 100 \text{ kN}$ ,  $P_4 = 80 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

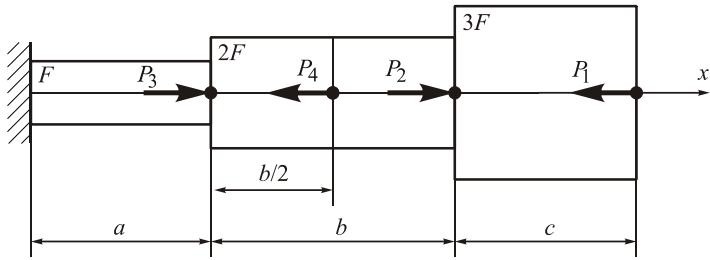
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 17

Complexity: 2



**Given:**  $P_1 = 20 \text{ kN}$ ,  $P_2 = 40 \text{ kN}$ ,  $P_3 = 100 \text{ kN}$ ,  $P_4 = 80 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

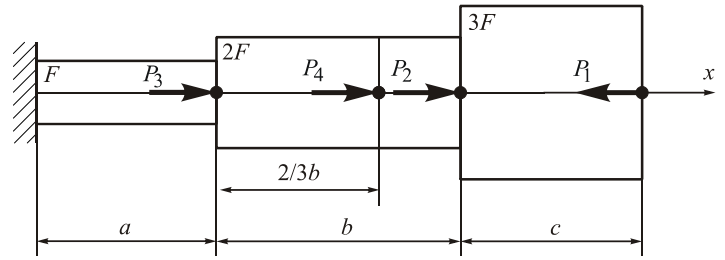
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 18

Complexity: 2



**Given:**  $P_1 = 20 \text{ kN}$ ,  $P_2 = 40 \text{ kN}$ ,  $P_3 = 100 \text{ kN}$ ,  $P_4 = 80 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

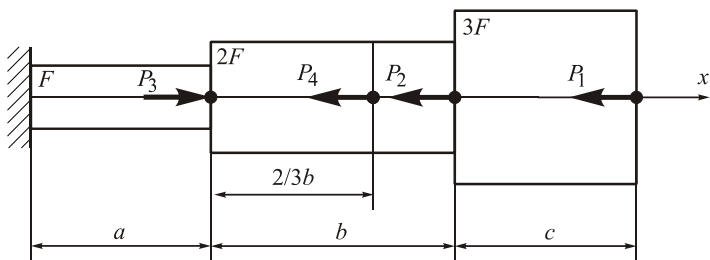
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 19

Complexity: 2



**Given:**  $P_1 = 20 \text{ kN}$ ,  $P_2 = 40 \text{ kN}$ ,  $P_3 = 100 \text{ kN}$ ,  $P_4 = 80 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

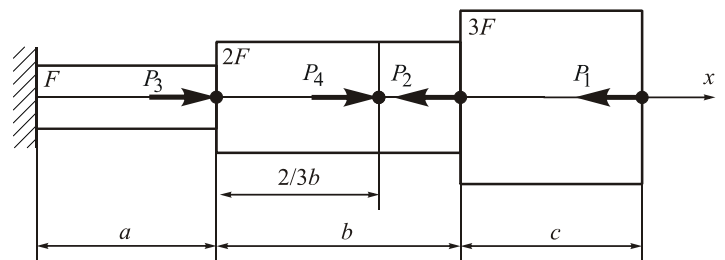
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 20

Complexity: 2



**Given:**  $P_1 = 20 \text{ kN}$ ,  $P_2 = 40 \text{ kN}$ ,  $P_3 = 100 \text{ kN}$ ,  $P_4 = 80 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

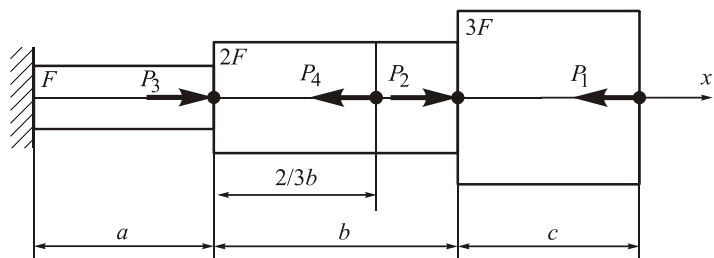
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 21

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

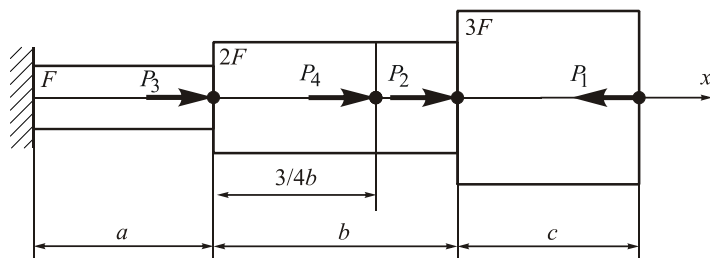
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 22

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

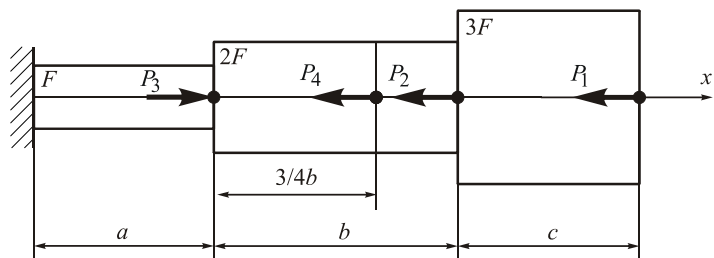
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 23

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

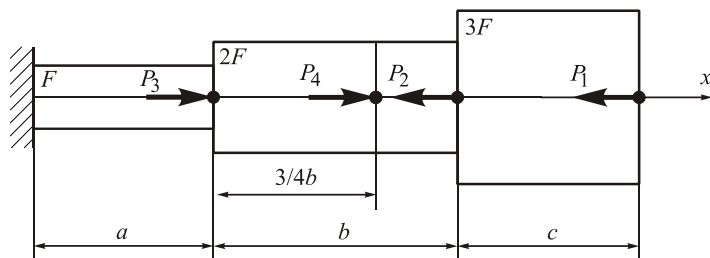
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**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 24

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

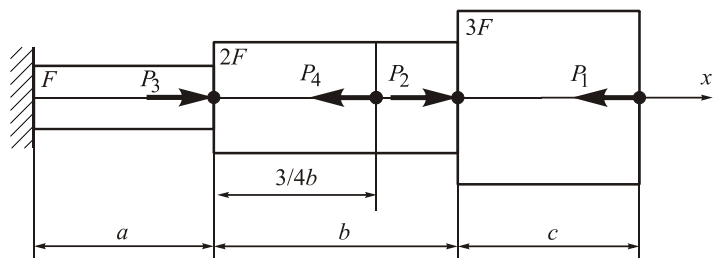
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 25

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

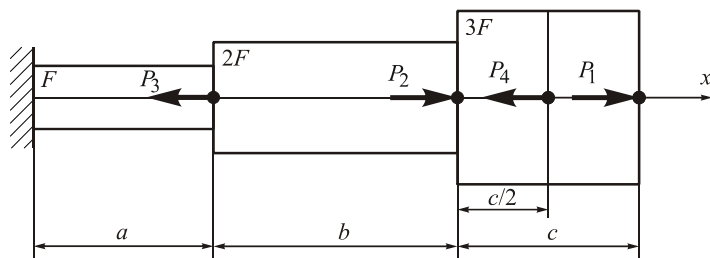
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 26

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

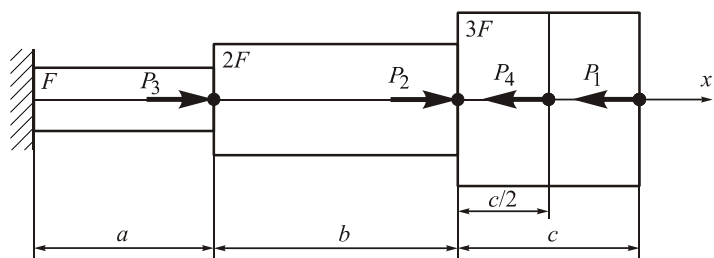
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**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 27

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

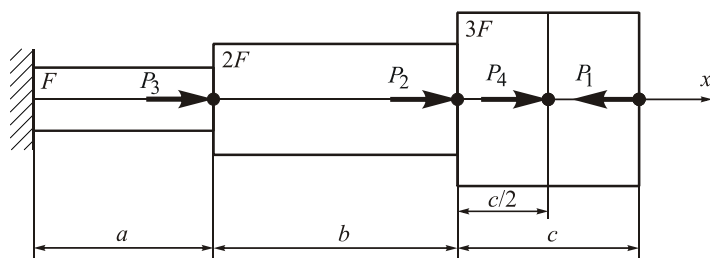
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 28

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

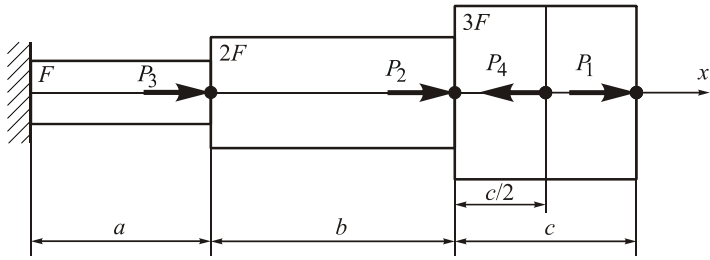
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 29

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

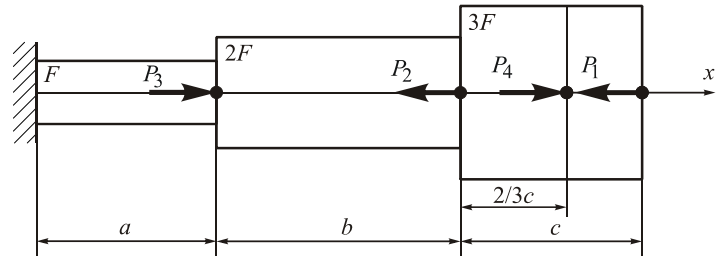
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**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 30

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

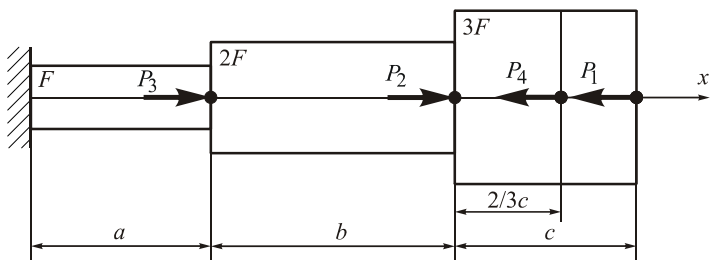
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**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 31

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

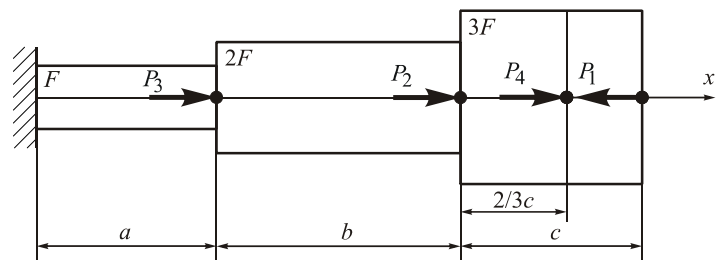
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 32

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

Mark:

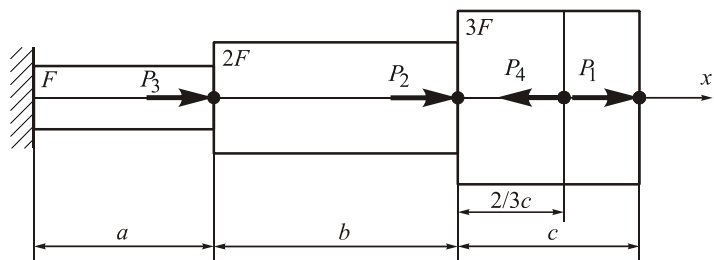


**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 33

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

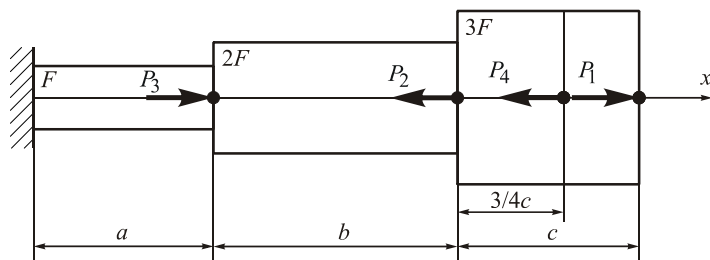
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 34

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

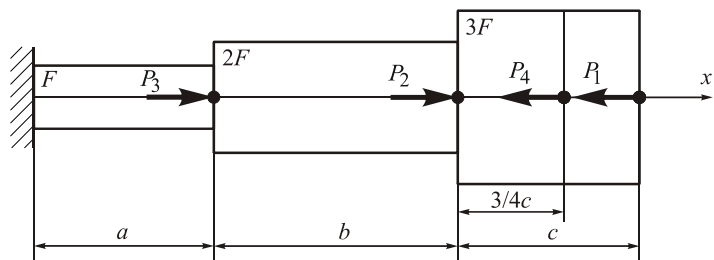
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 35

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

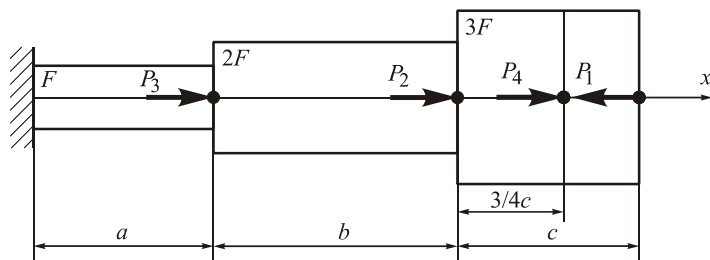
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 36

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

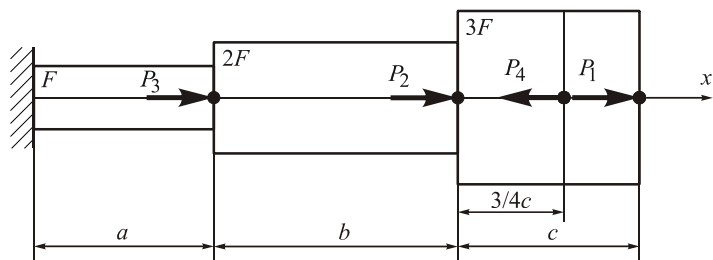
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 37

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

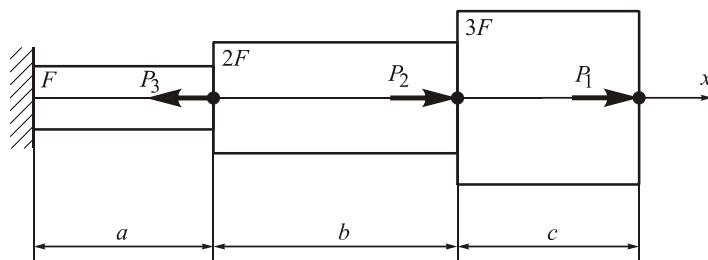
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 38

Complexity: 1



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

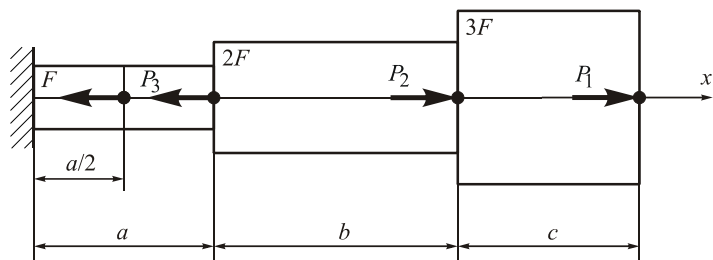
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 39

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

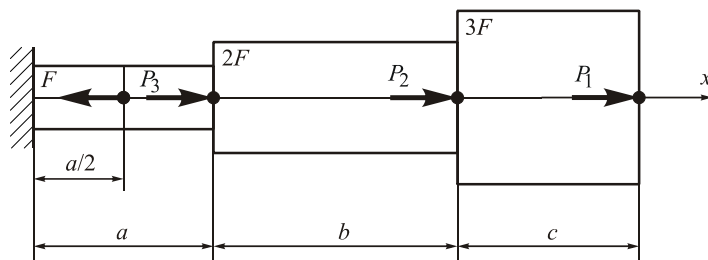
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 40

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

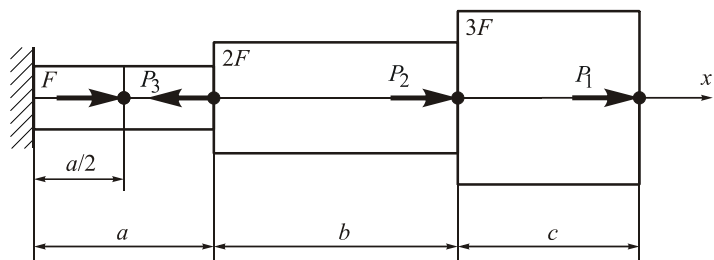
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 41

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

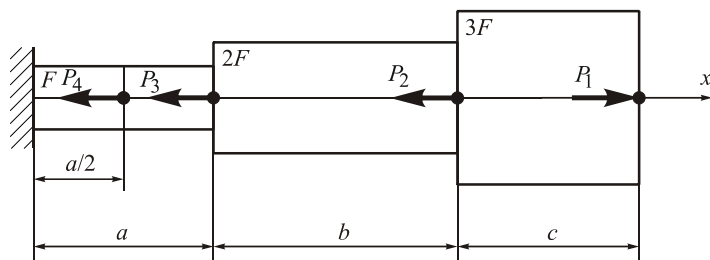
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 42

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

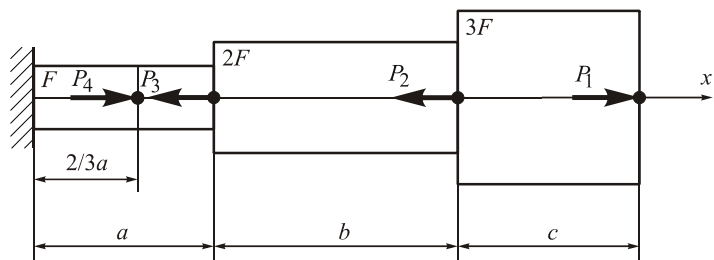
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 43

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

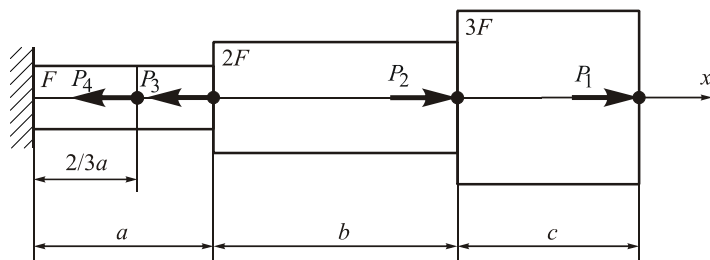
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 44

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

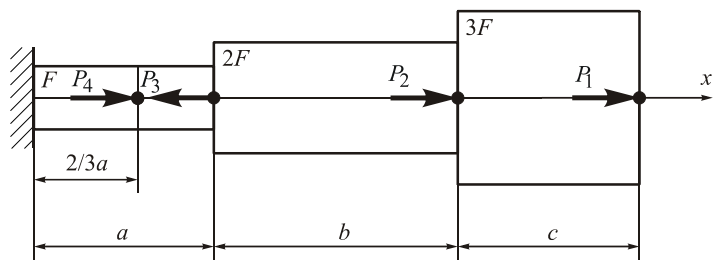
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 45

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

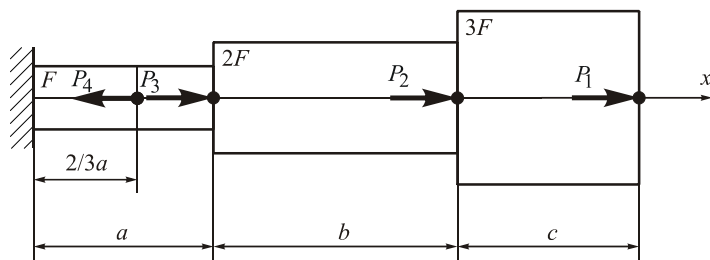
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 46

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

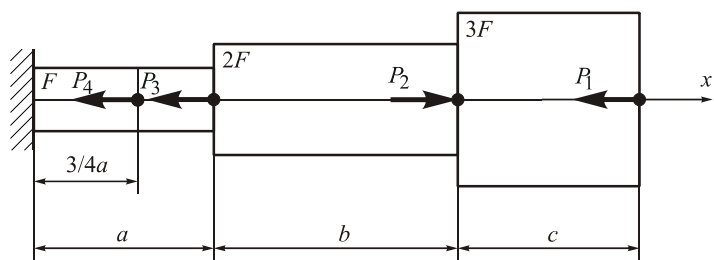
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 47

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

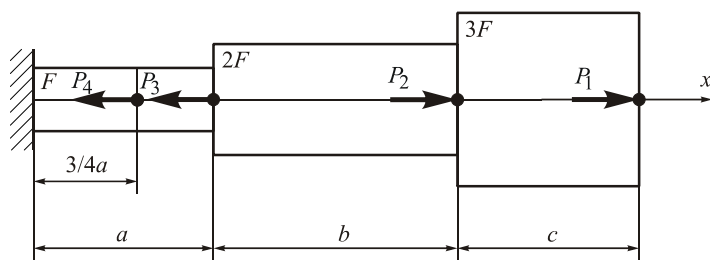
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 48

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

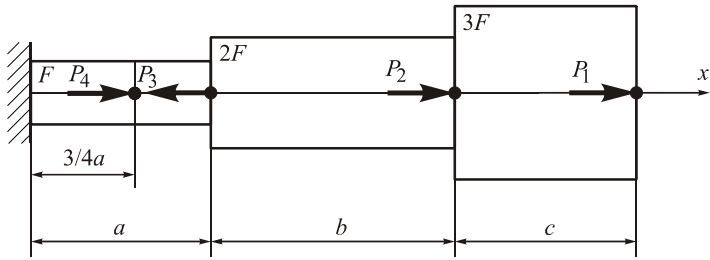
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 49

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

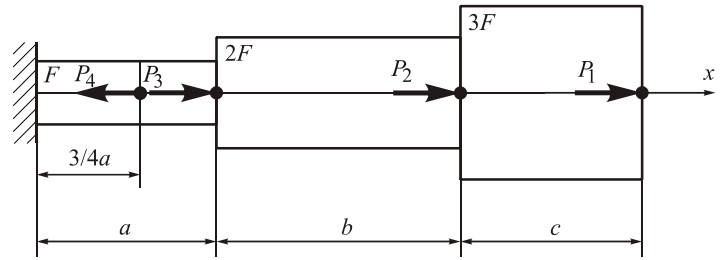
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 50

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

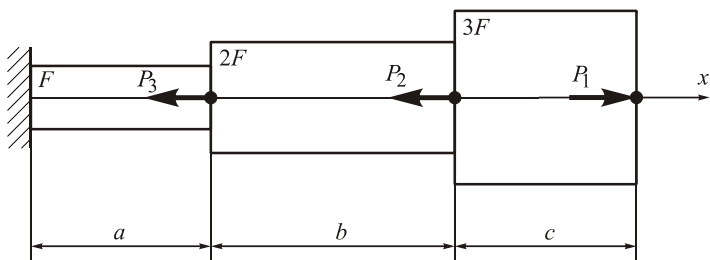
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 51

Complexity: 1



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

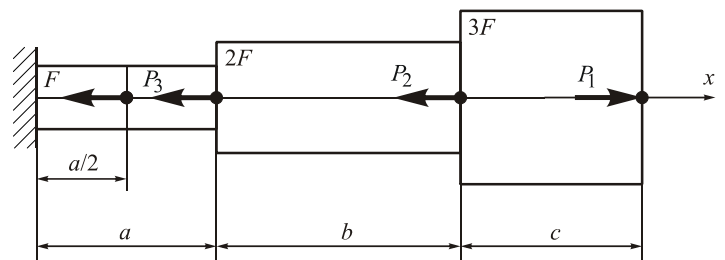
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 52

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

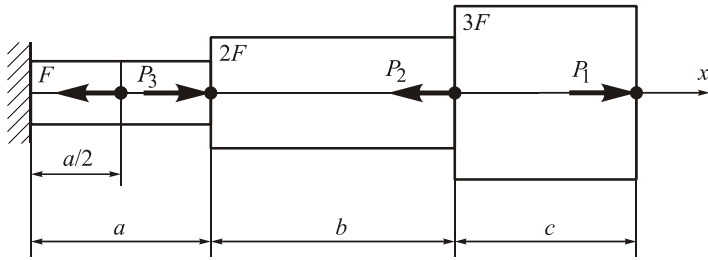
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 53

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

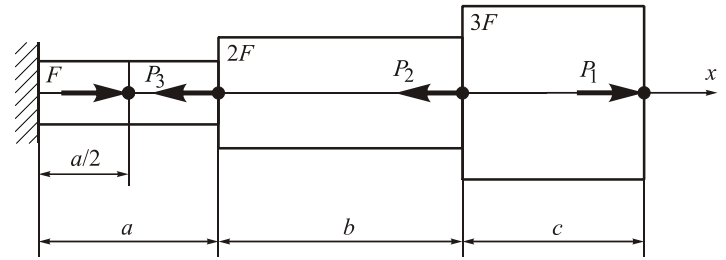
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 54

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

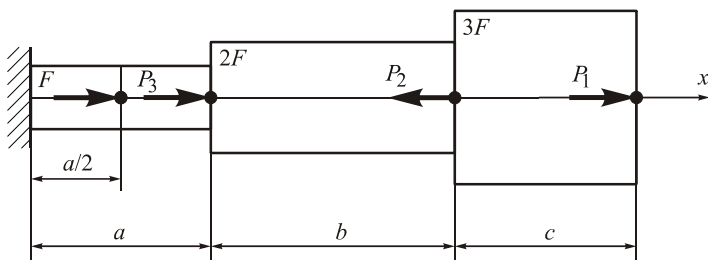
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 55

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

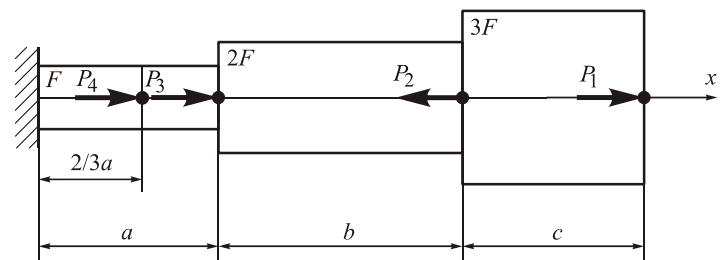
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 56

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

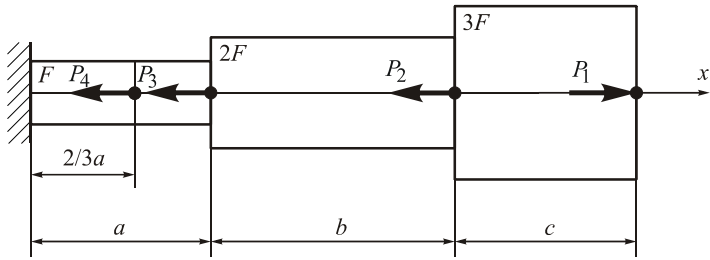
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 57

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

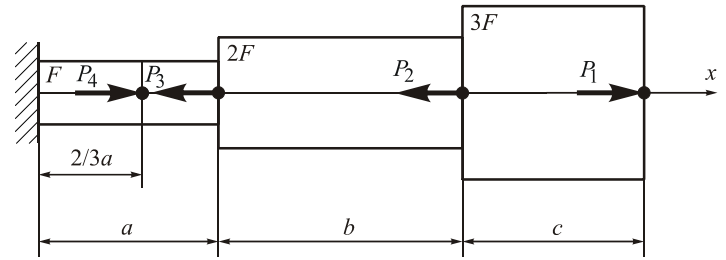
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 58

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

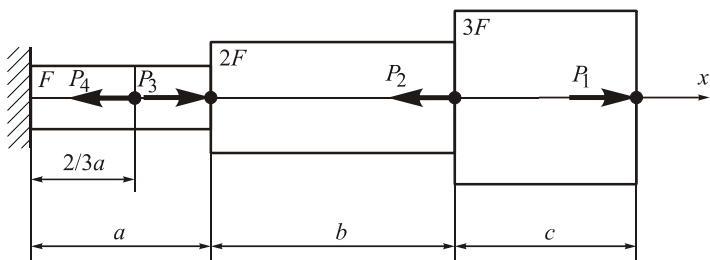
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 59

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

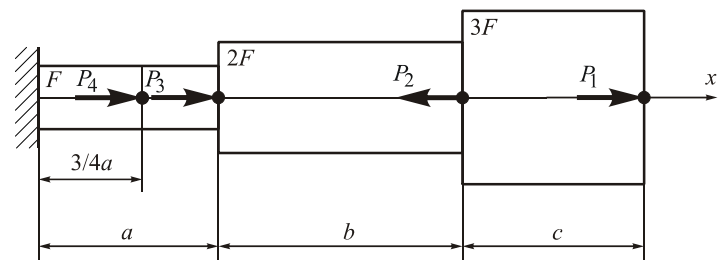
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 60

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

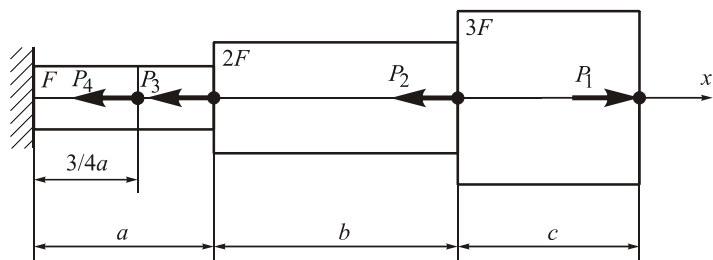
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 61

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

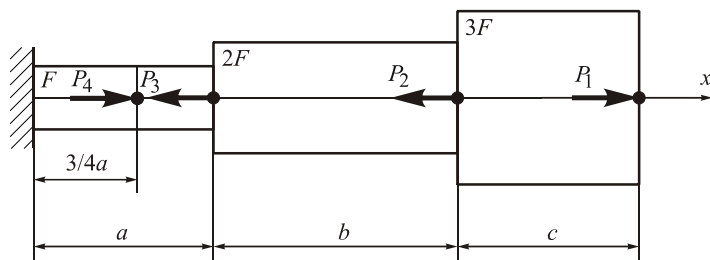
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 62

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

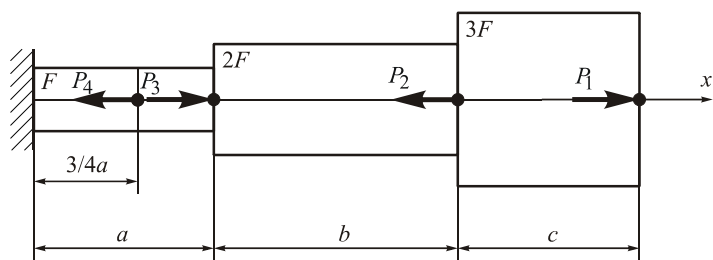
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 63

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

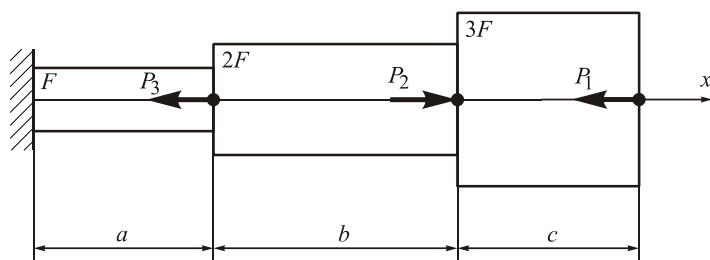
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 64

Complexity: 1



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

Mark:

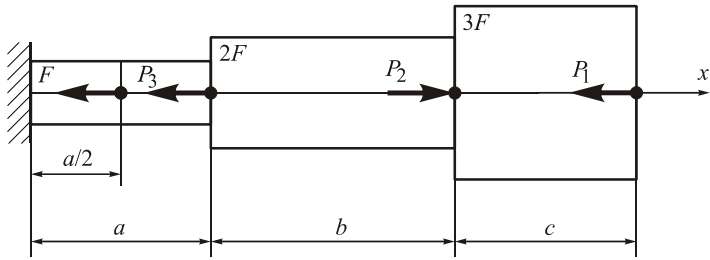


**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 65

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

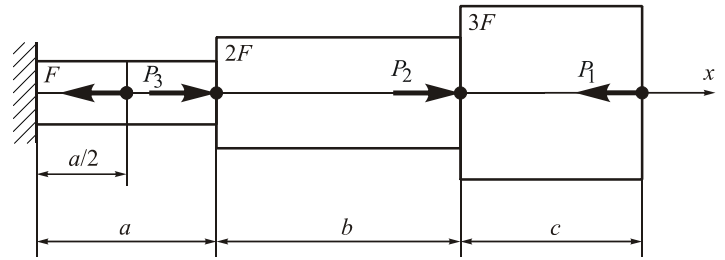
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 66

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

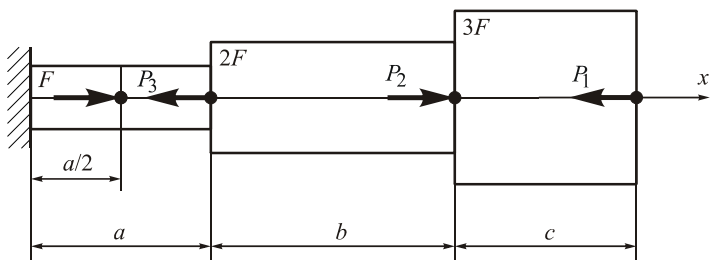
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 67

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

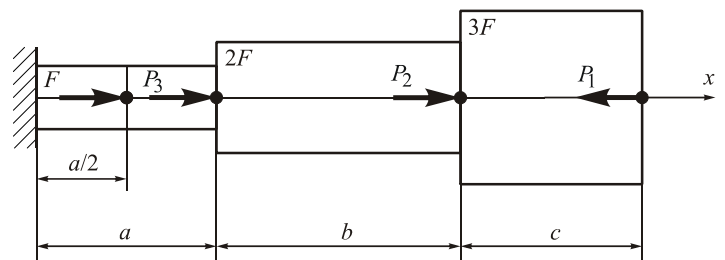
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 68

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

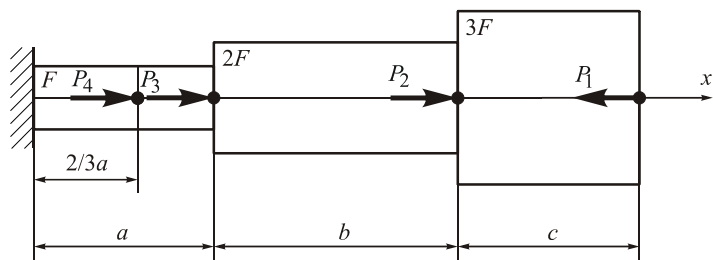
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 69

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

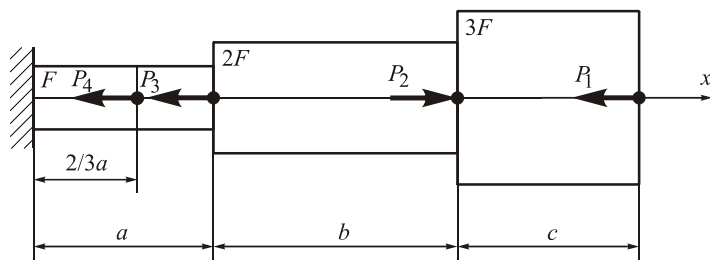
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 70

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

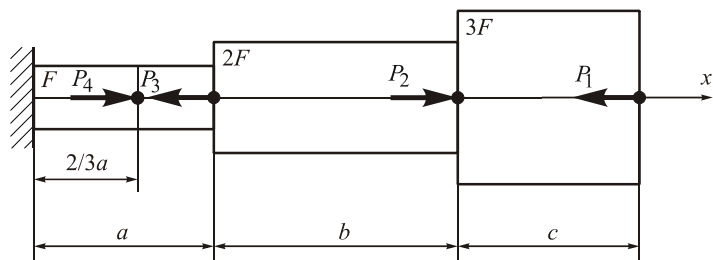
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 71

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

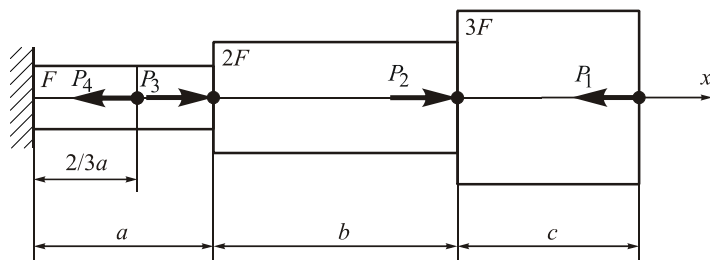
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 72

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

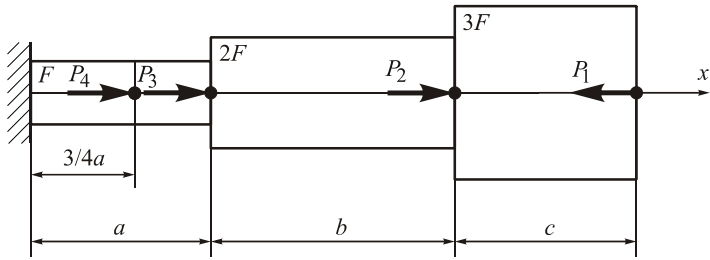
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 73

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

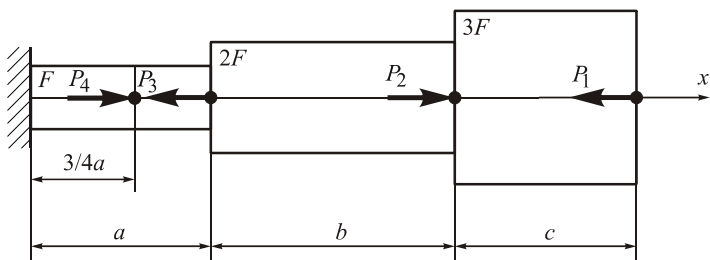
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 75

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

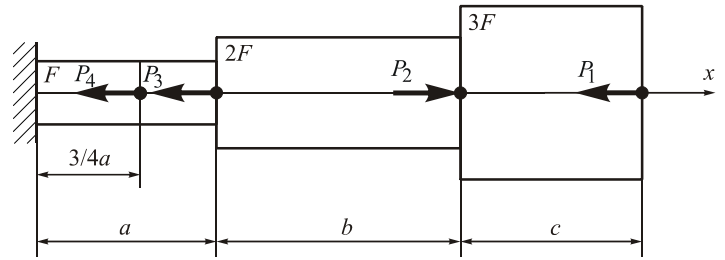
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 74

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

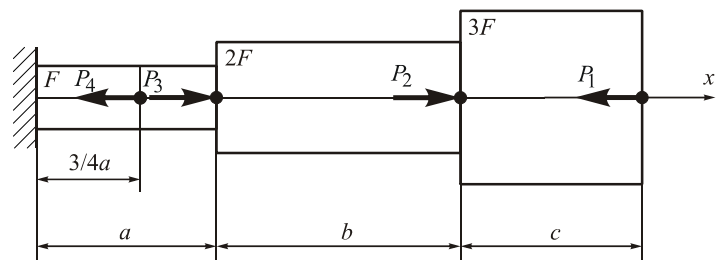
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 76

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

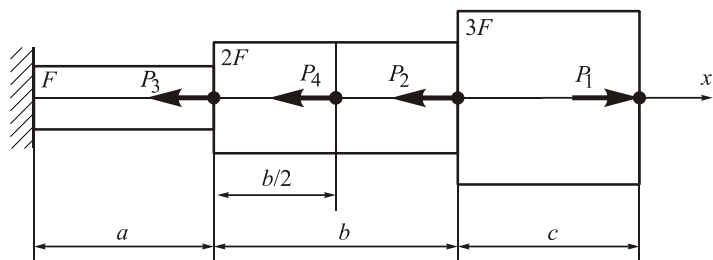
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 77

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

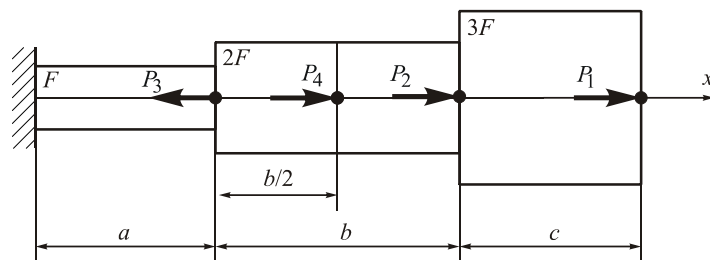
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 78

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

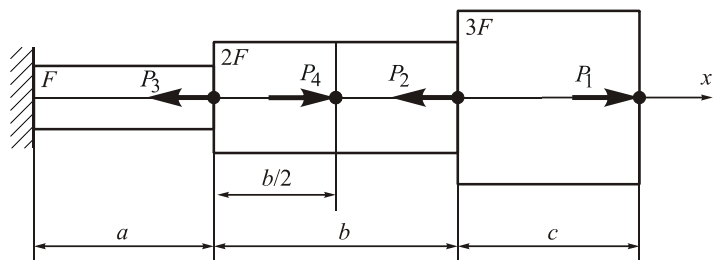
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 79

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

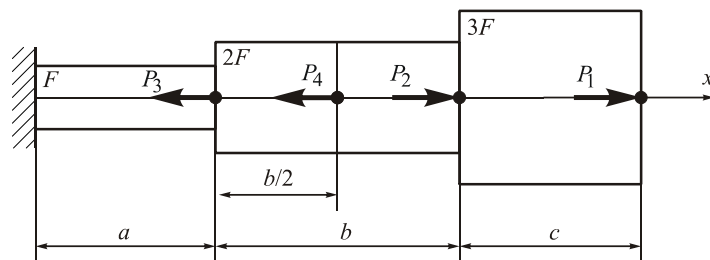
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 80

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

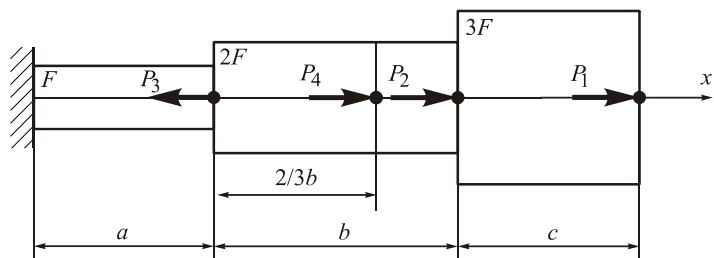
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 81

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

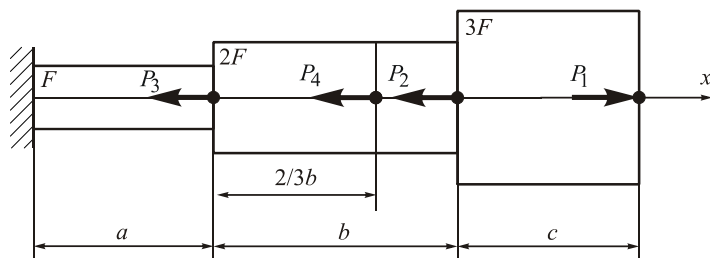
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 82

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

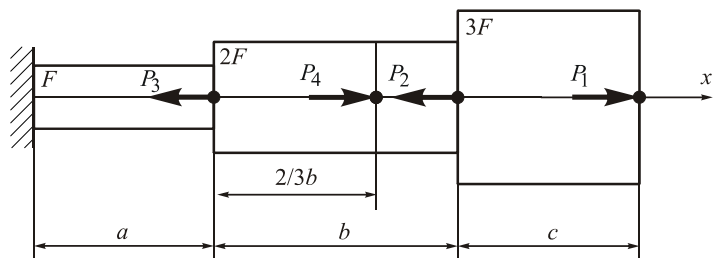
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 83

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

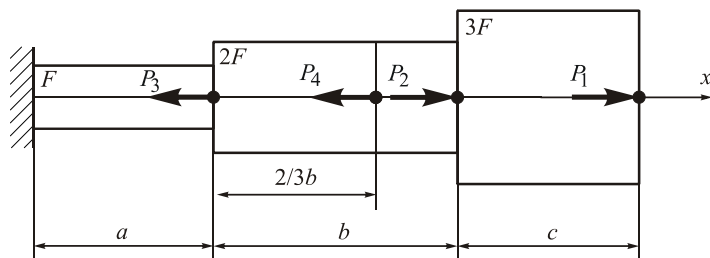
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 84

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

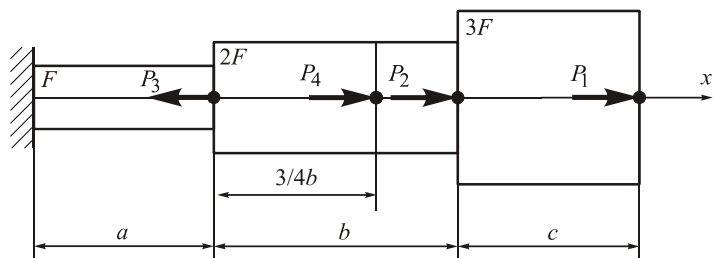
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 85

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

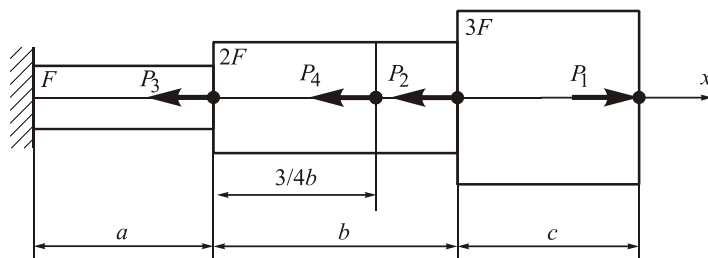
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 86

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

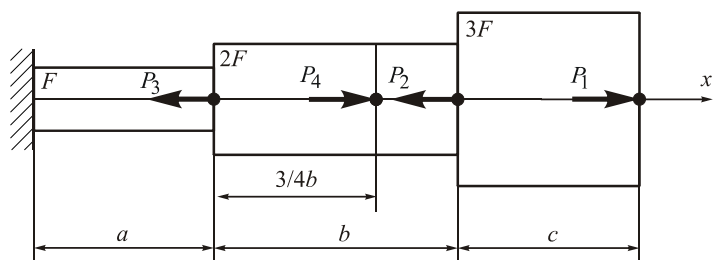
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 87

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

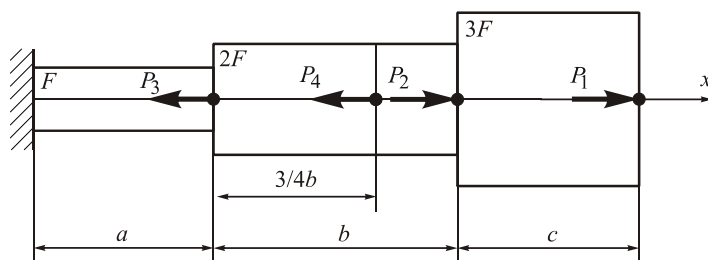
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 88

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

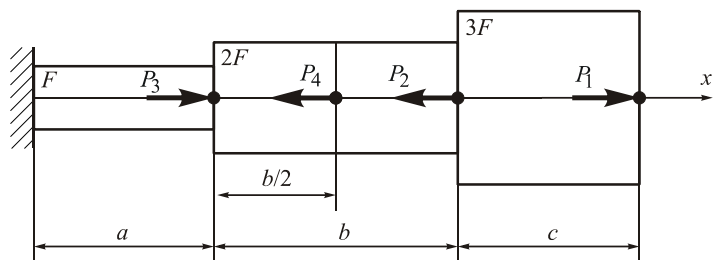
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 89

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

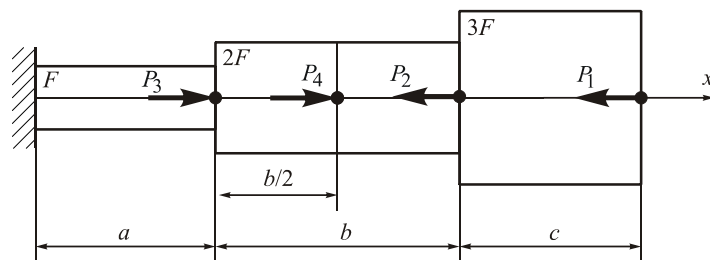
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 90

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

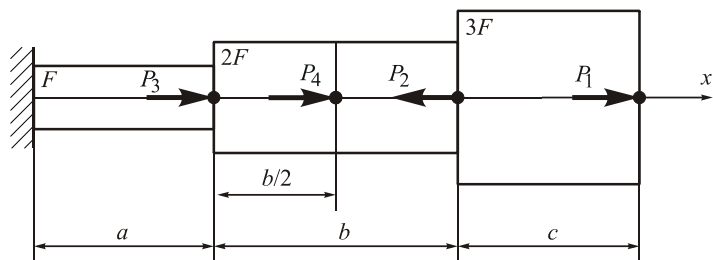
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 91

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

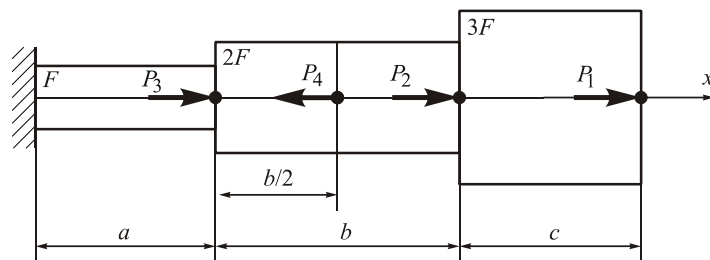
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 92

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

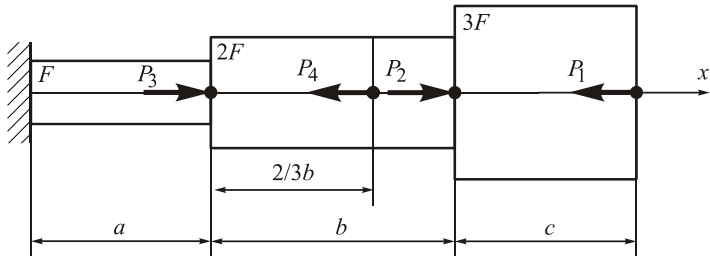
Mark:

Subject: mechanics of materials  
Document: home problem  
Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 93

Complexity: 2



Given:  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

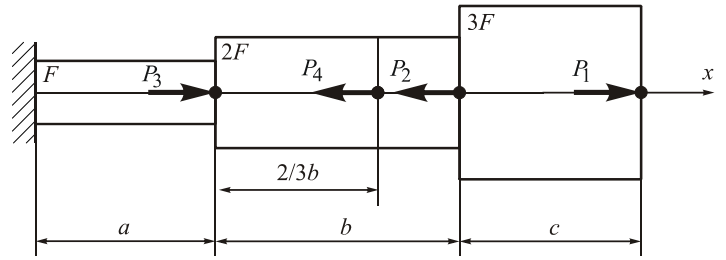
Mark:

Subject: mechanics of materials  
Document: home problem  
Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 94

Complexity: 2



Given:  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

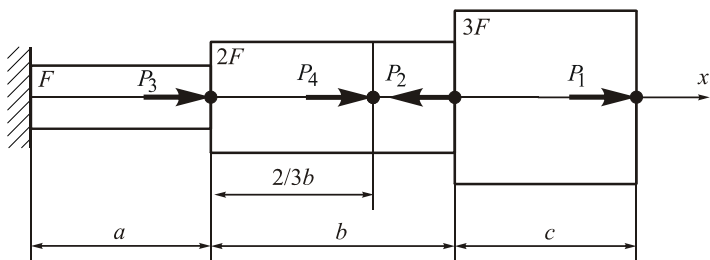
Mark:

Subject: mechanics of materials  
Document: home problem  
Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 95

Complexity: 2



Given:  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

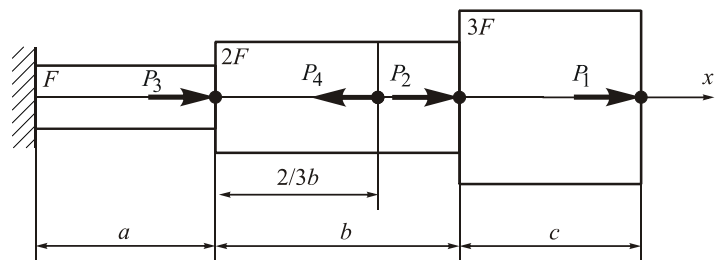
Mark:

Subject: mechanics of materials  
Document: home problem  
Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 96

Complexity: 2



Given:  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

Mark:

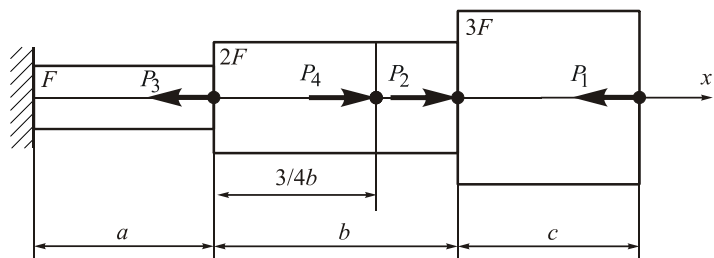


**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 97

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

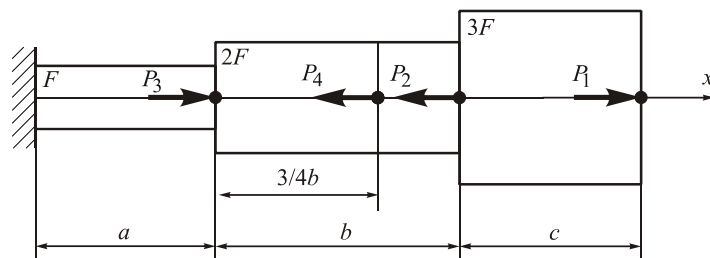
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 98

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

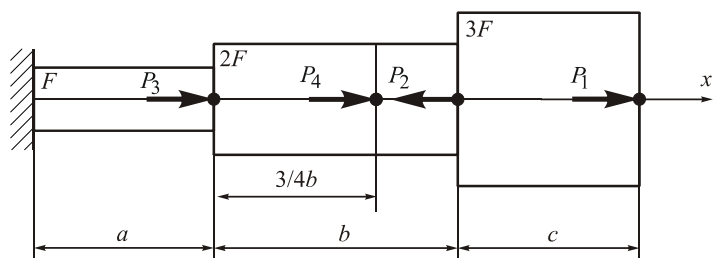
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 99

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

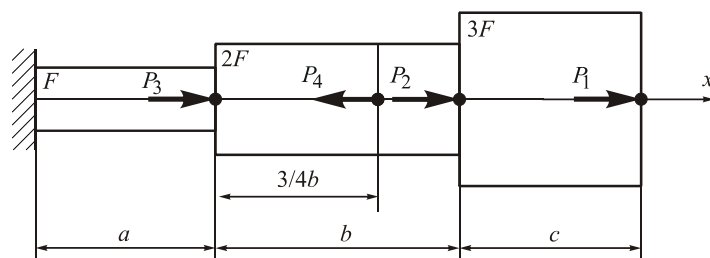
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 100

Complexity: 2



**Given:**  $P_1 = 20$  kN,  $P_2 = 40$  kN,  $P_3 = 100$  kN,  $P_4 = 80$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

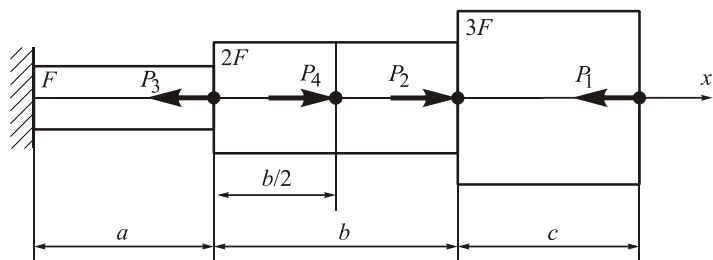
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 101

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

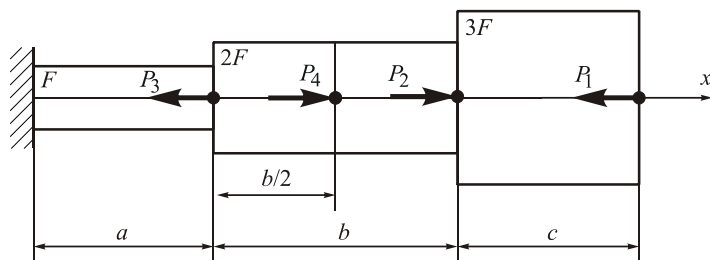
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 102

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

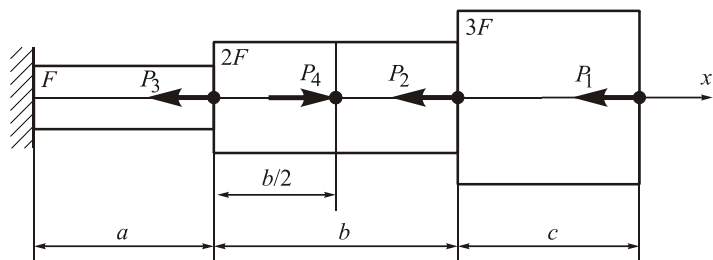
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 103

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

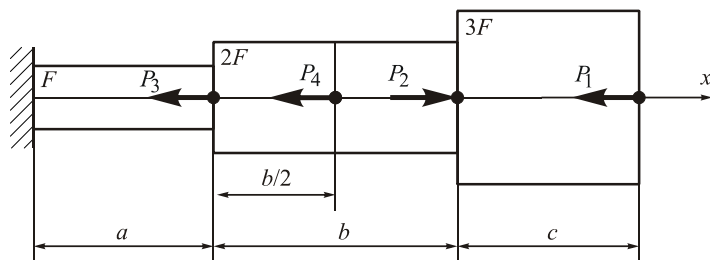
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 104

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

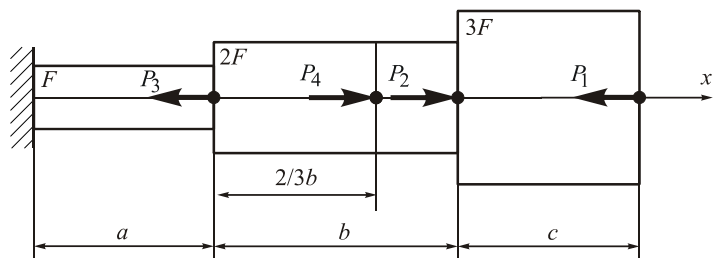
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 105

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

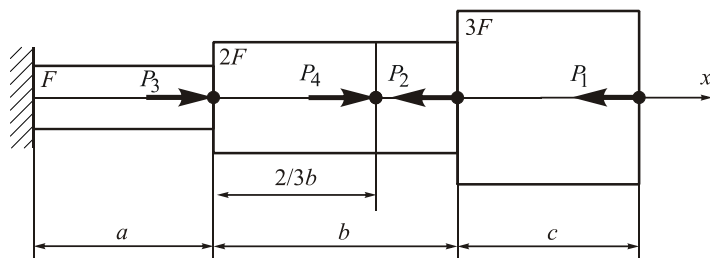
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 106

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

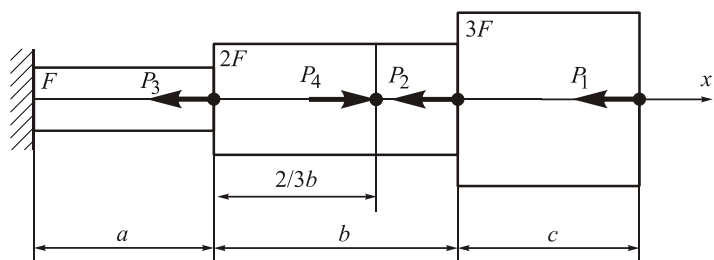
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 107

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

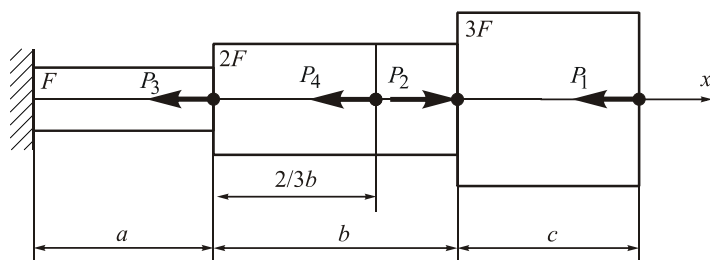
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 108

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

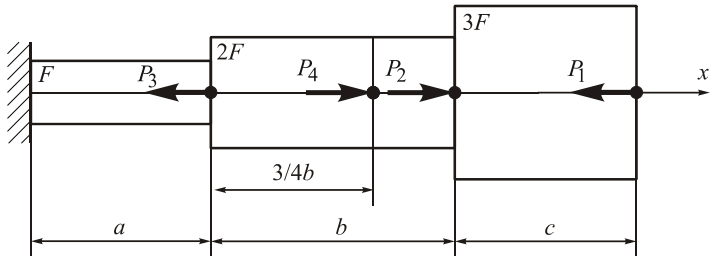
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 109

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

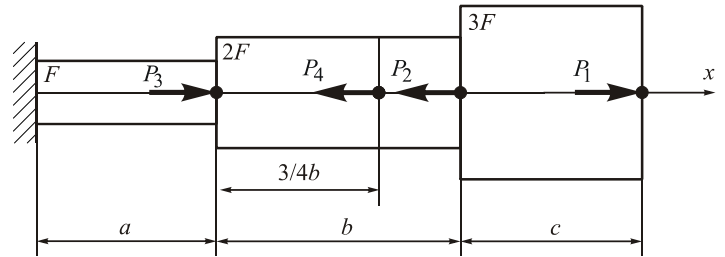
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 110

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

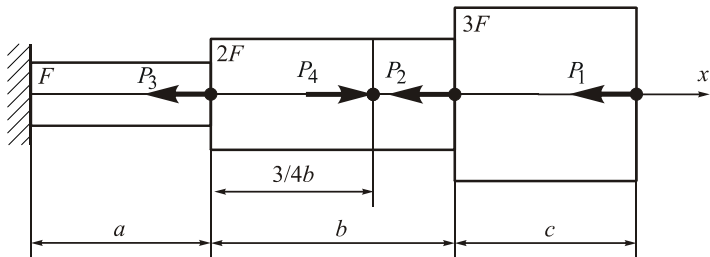
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 111

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

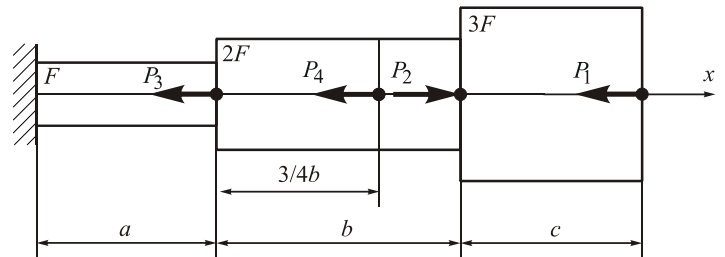
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 112

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

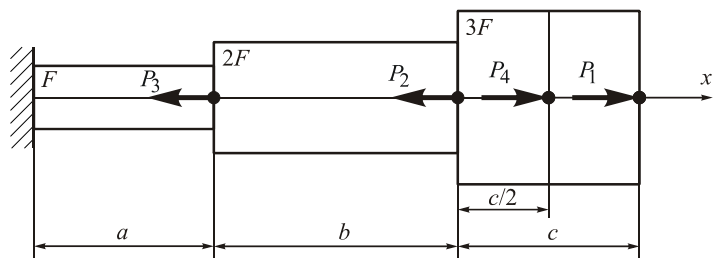
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 113

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

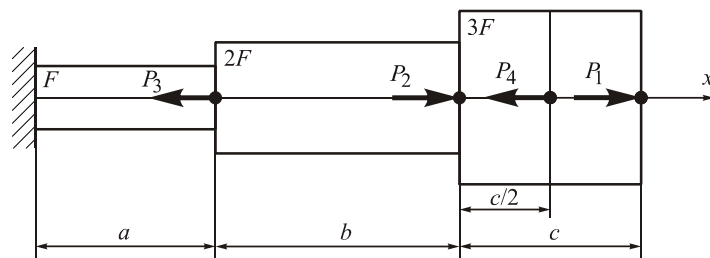
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 114

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

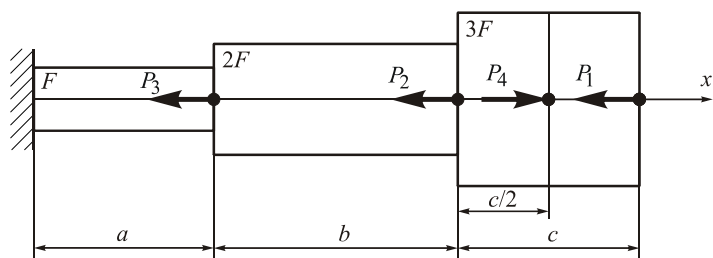
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 115

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

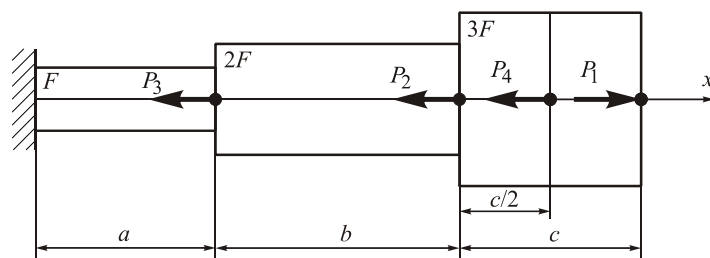
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 116

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

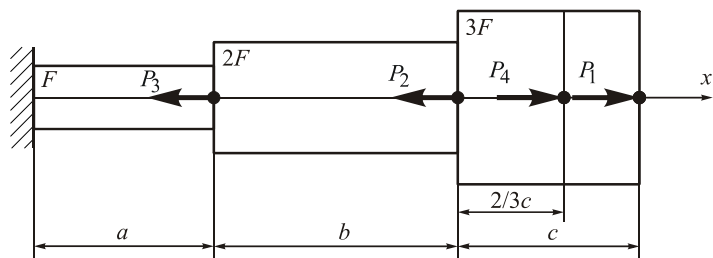
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 117

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

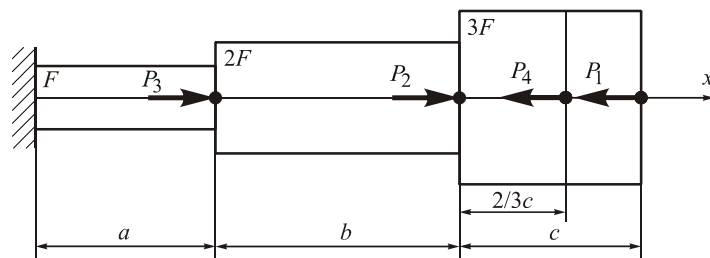
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 118

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

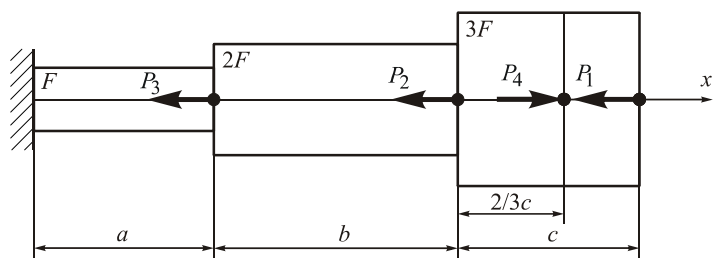
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 119

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

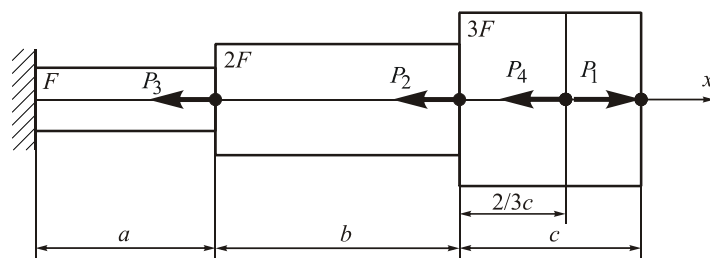
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 120

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

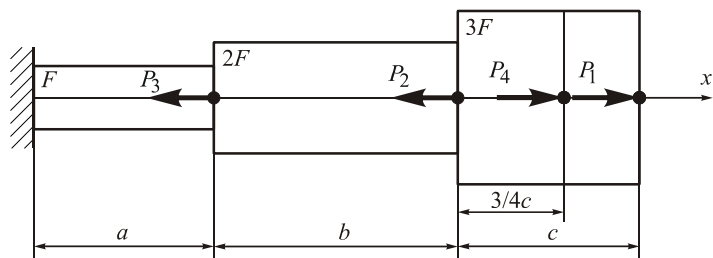
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 121

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

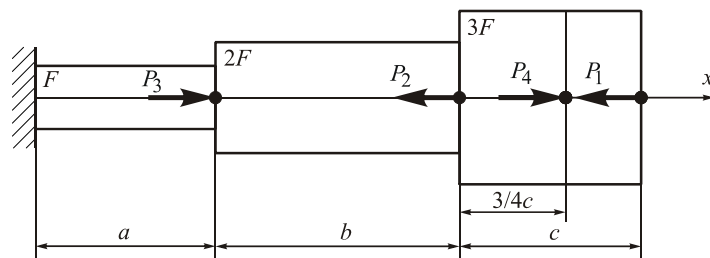
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 122

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

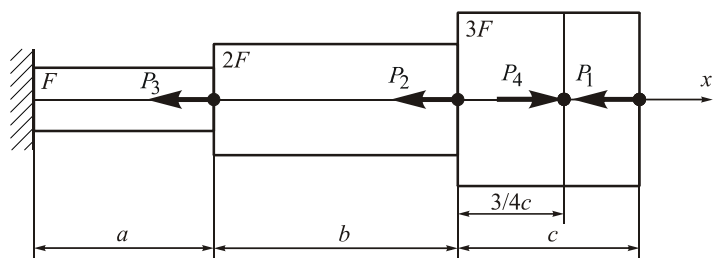
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 123

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

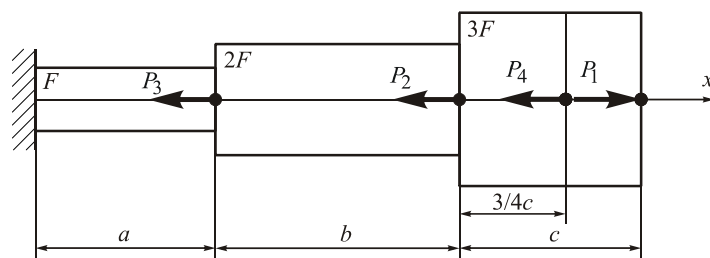
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 124

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

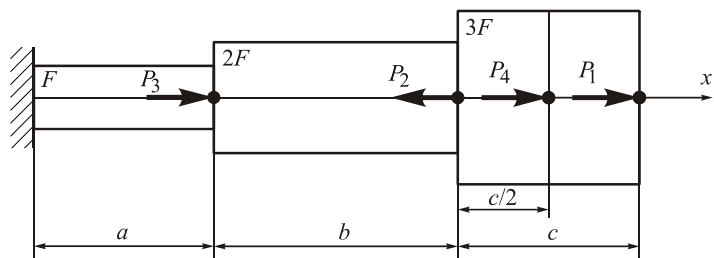
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 125

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

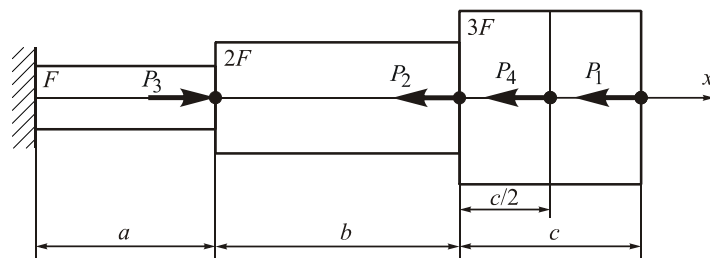
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 126

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

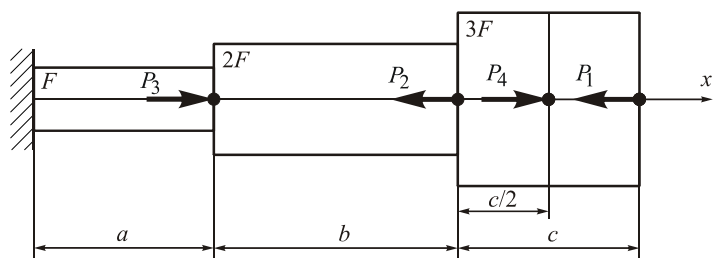
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 127

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

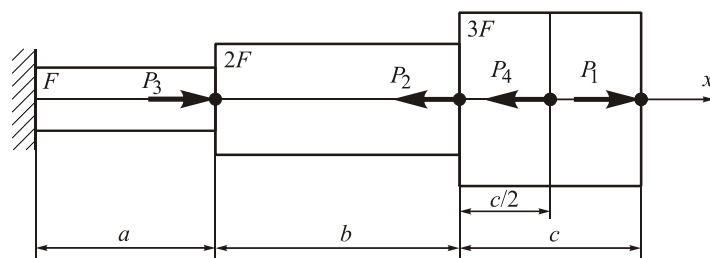
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 128

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

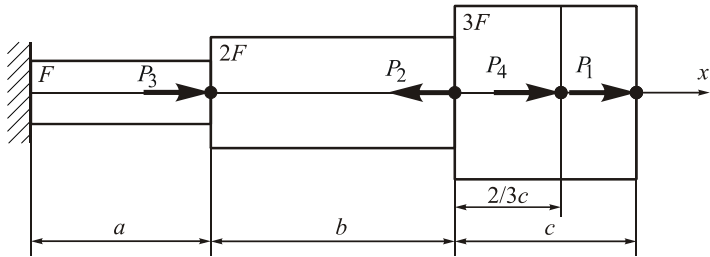


**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 129

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

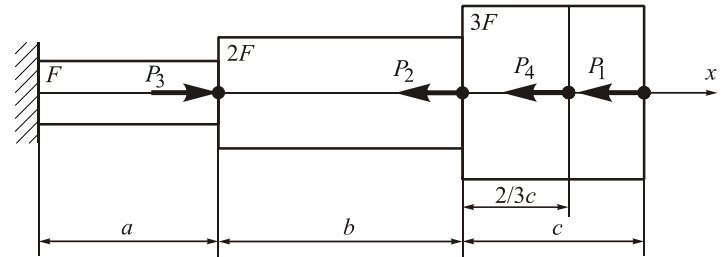
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 130

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

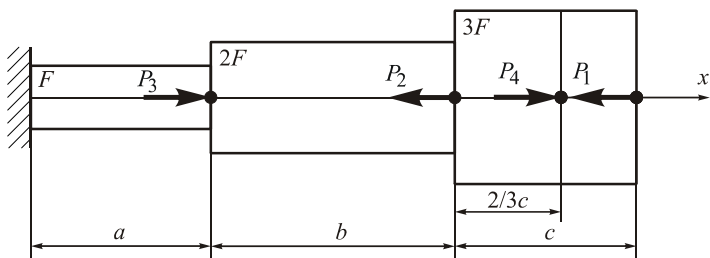
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 131

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

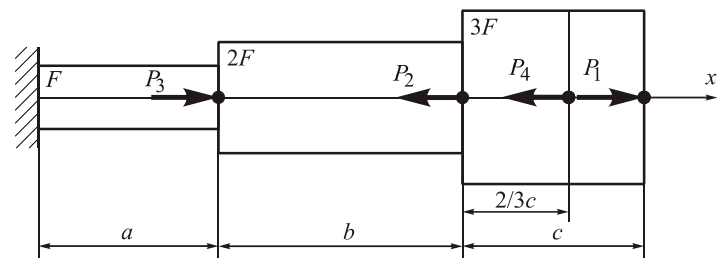
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 132

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

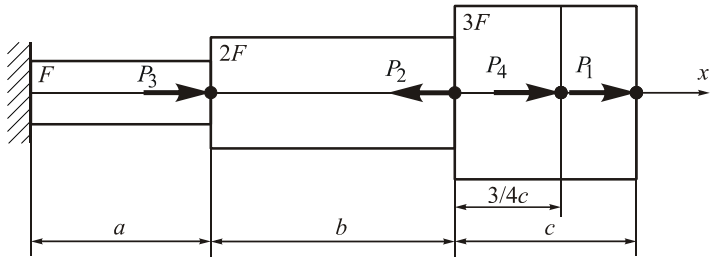
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 133

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

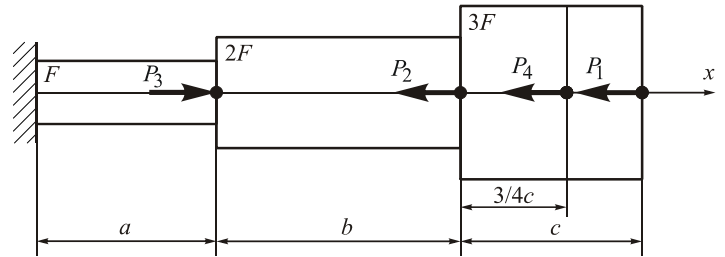
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 134

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

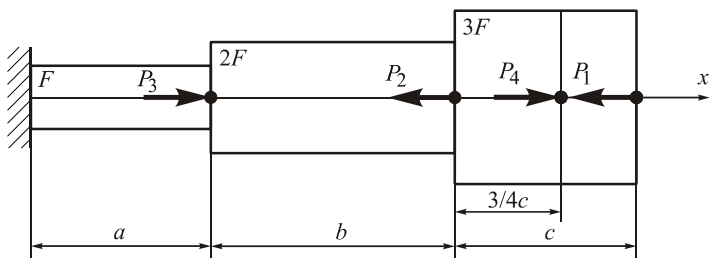
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 135

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

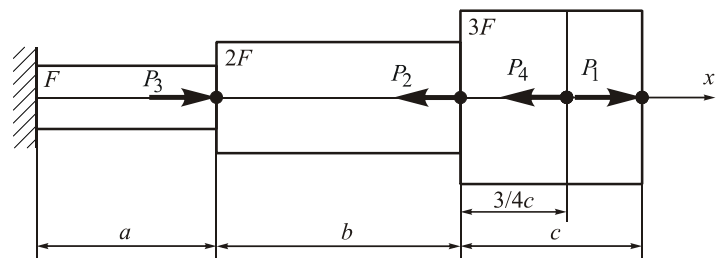
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 136

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

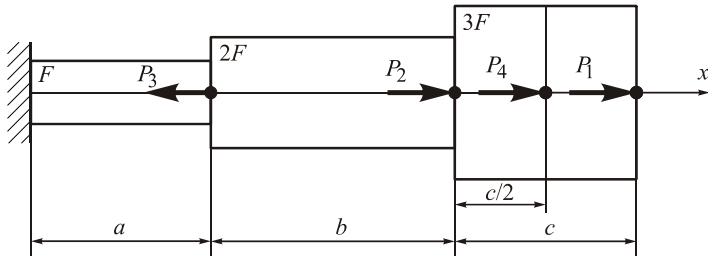
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 137

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

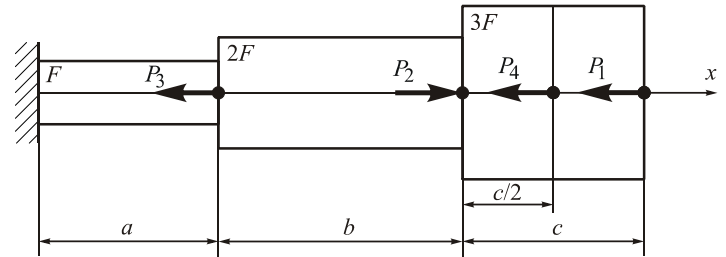
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 138

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

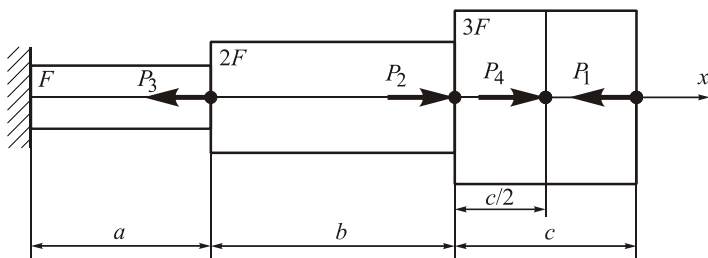
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 139

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

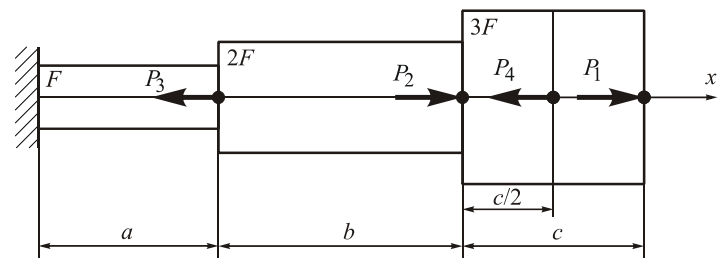
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 140

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

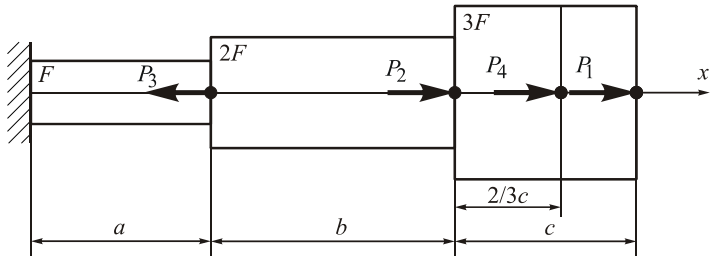
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 141

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

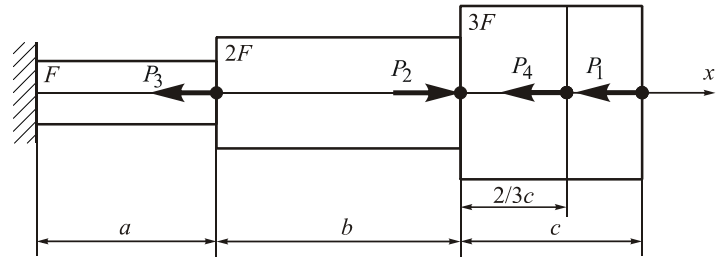
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 142

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

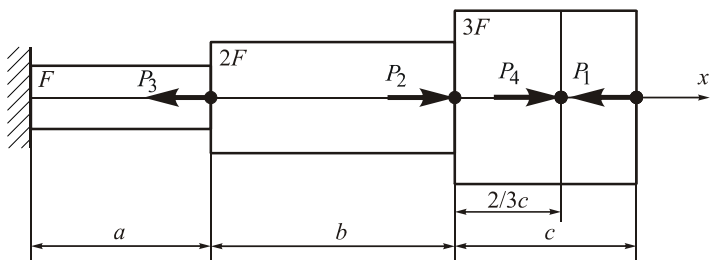
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 143

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

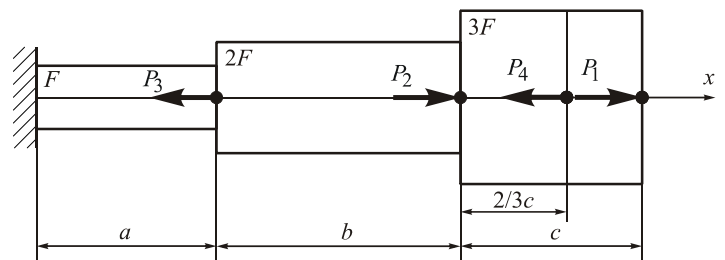
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 144

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

Mark:

Subject: mechanics of materials

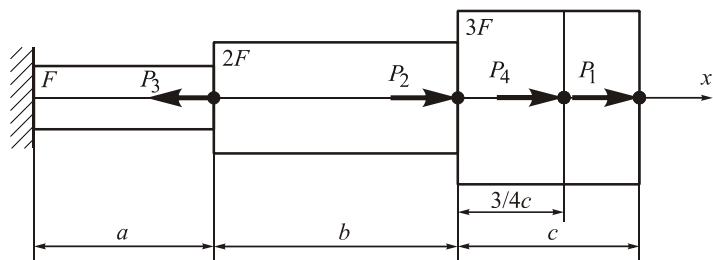
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 145

Complexity: 2



Given:  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

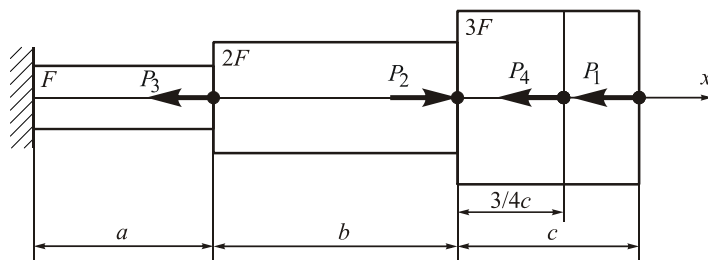
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 146

Complexity: 2



Given:  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

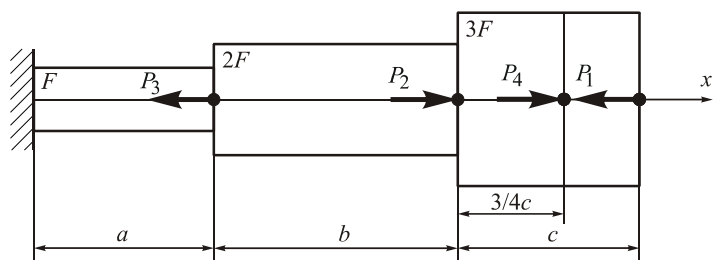
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 147

Complexity: 2



Given:  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

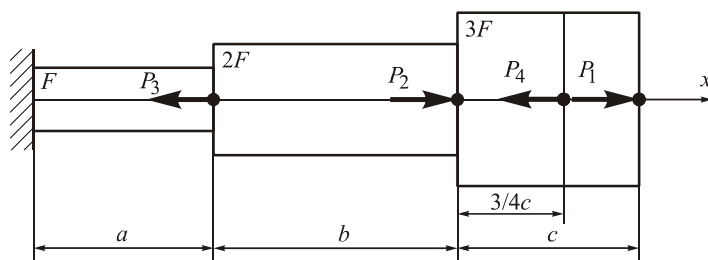
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 148

Complexity: 2



Given:  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

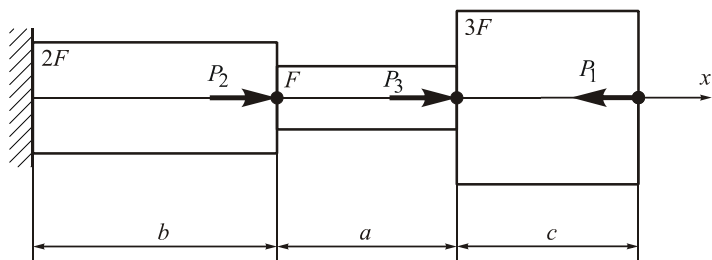
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 149

Complexity: 1



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

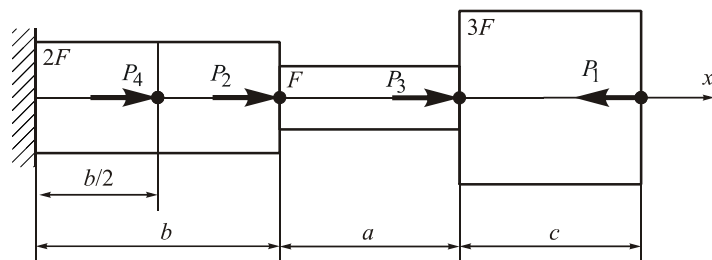
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 150

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

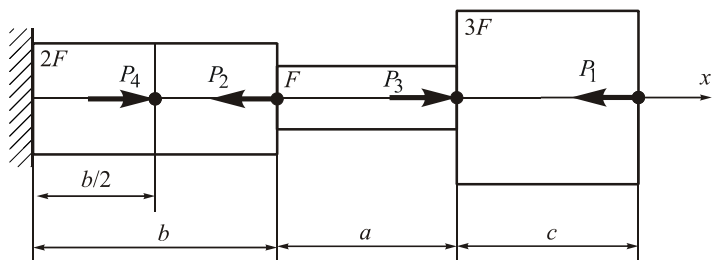
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 151

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

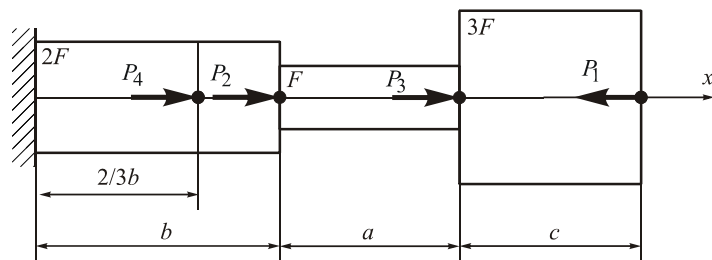
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 152

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

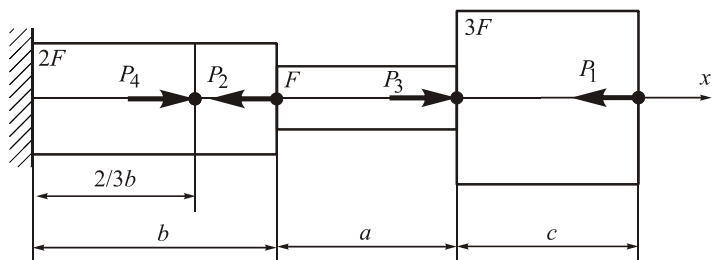
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 153

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

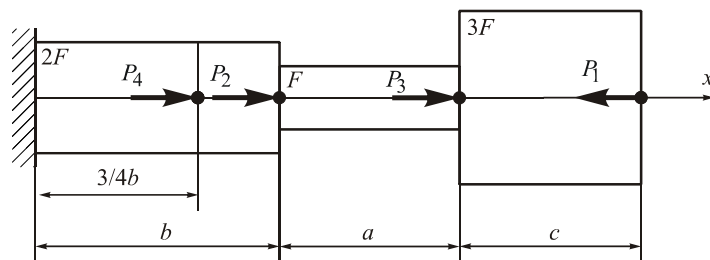
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 154

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

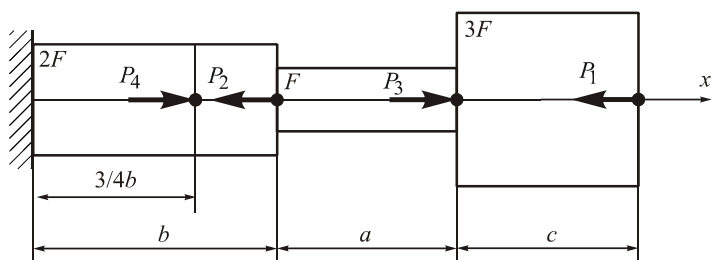
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 155

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

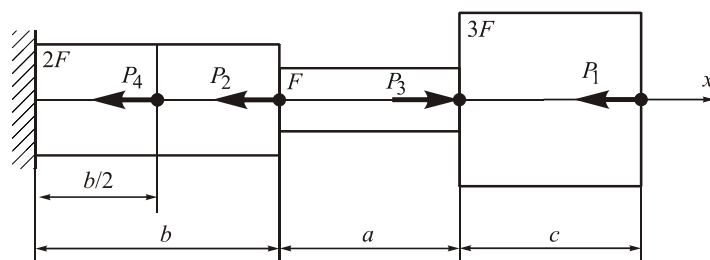
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 156

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

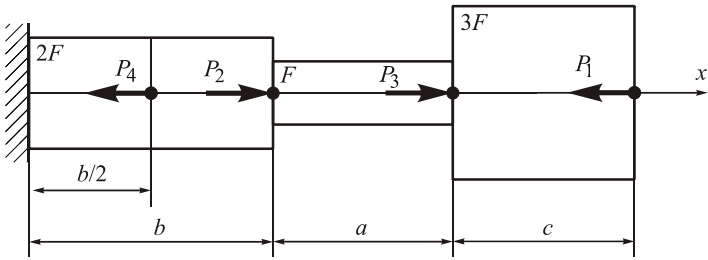
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**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 157

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

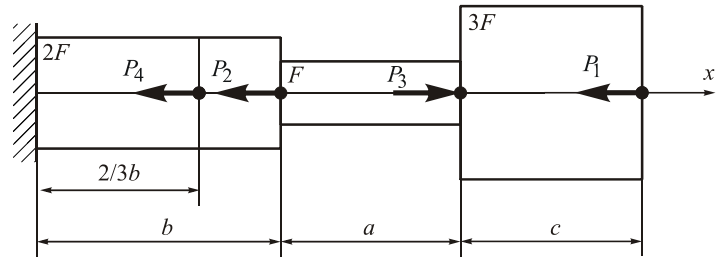
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 158

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

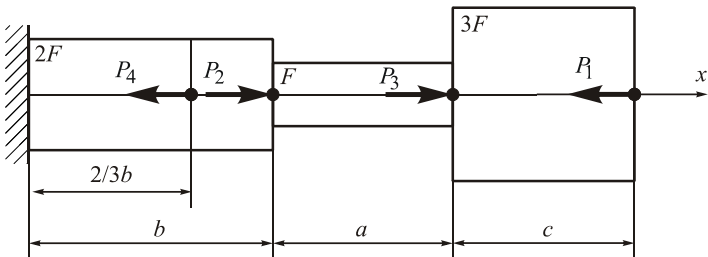
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 159

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

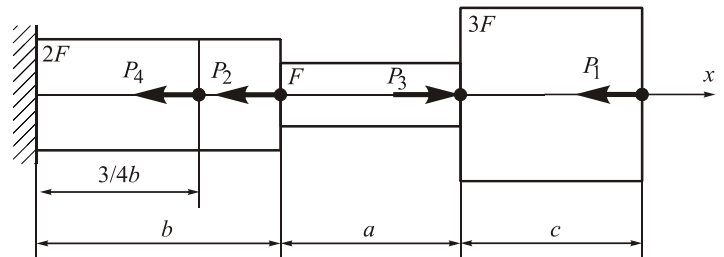
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 160

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

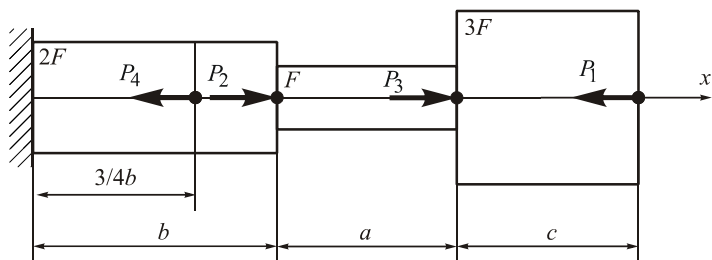


**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 161

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

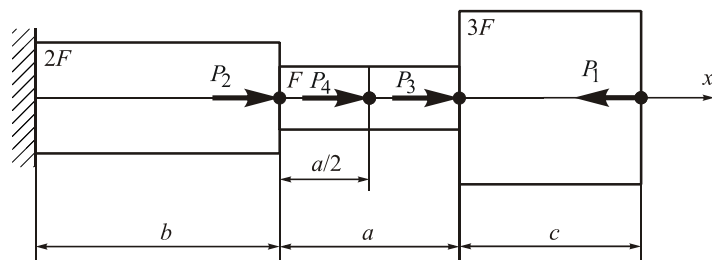
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 162

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

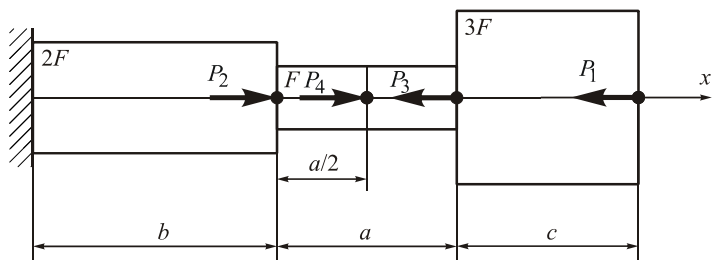
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 163

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

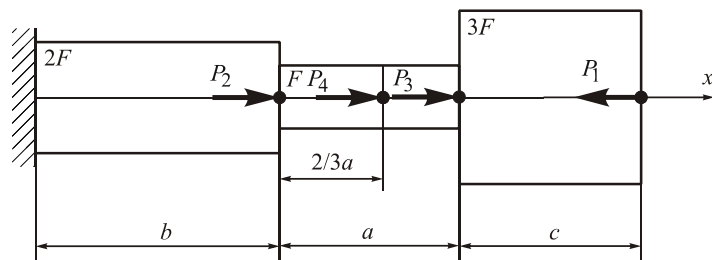
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 164

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

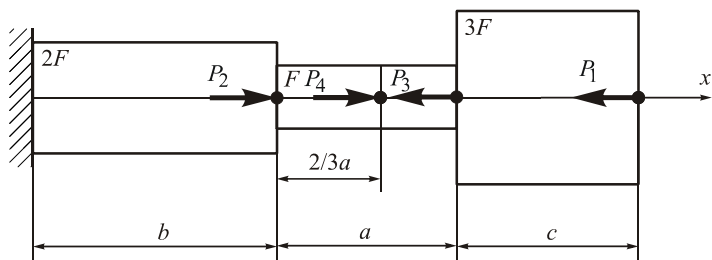
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 165

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

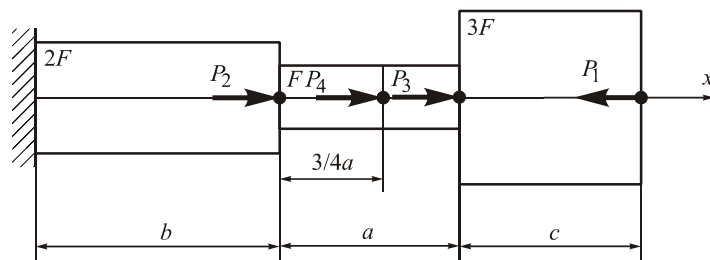
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 166

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

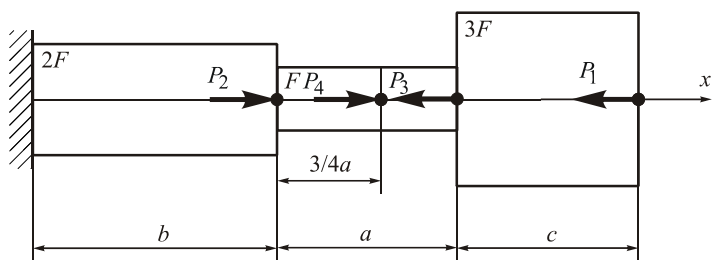
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 167

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

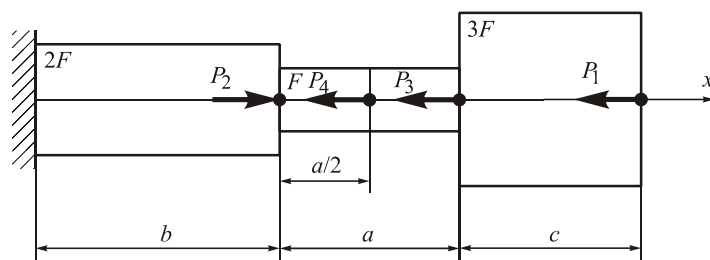
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 168

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

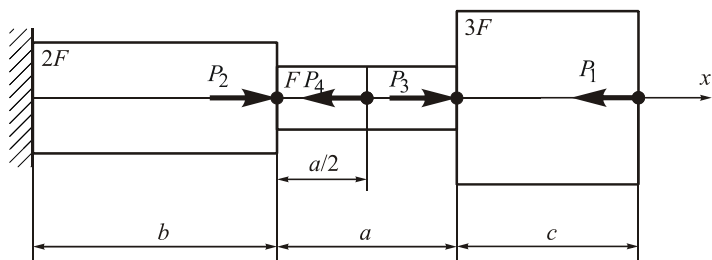
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 169

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

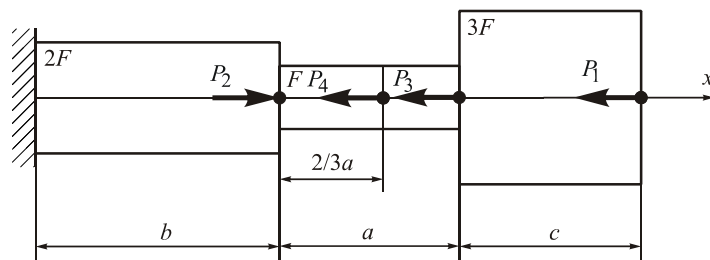
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 170

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

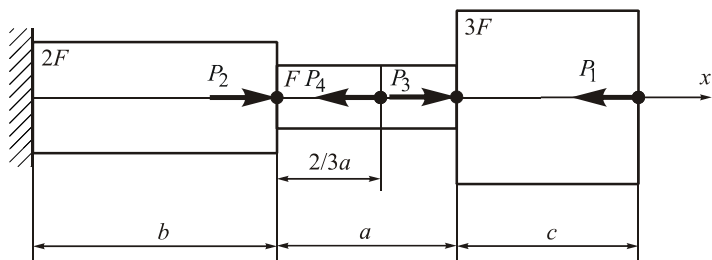
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 171

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

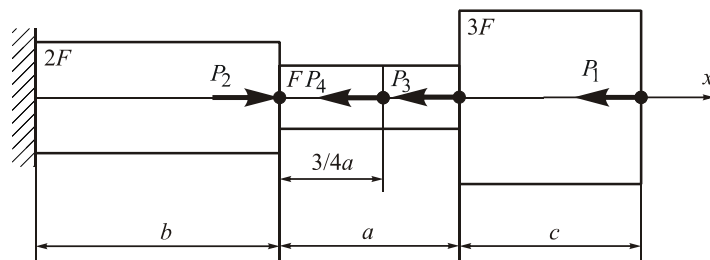
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 172

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

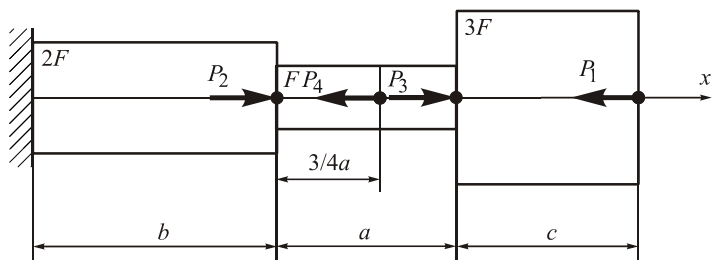
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 173

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

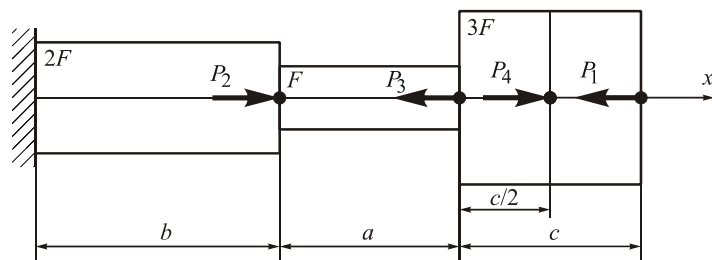
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 174

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

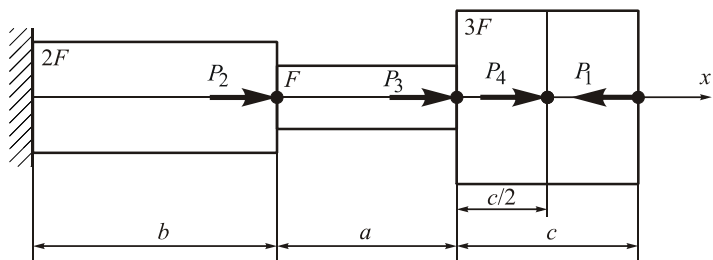
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 175

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

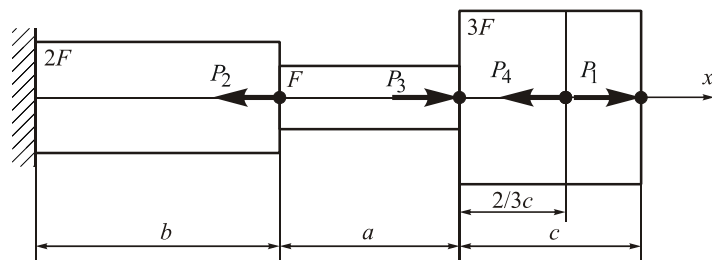
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 176

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

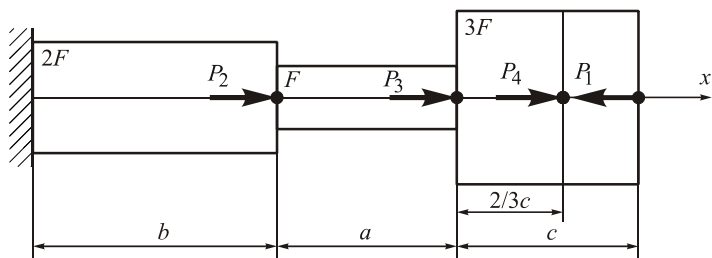
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 177

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

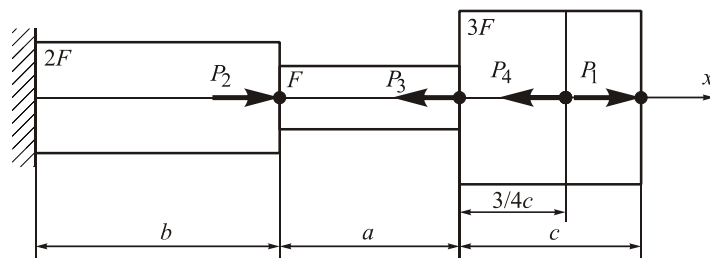
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 178

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

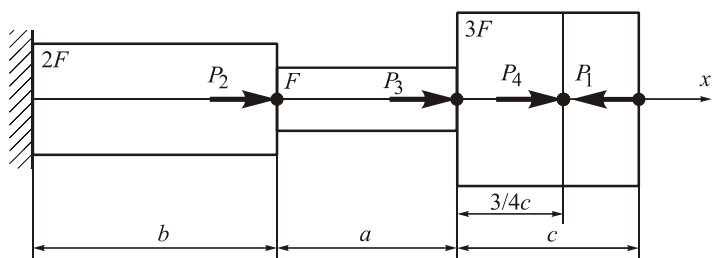
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**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 179

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

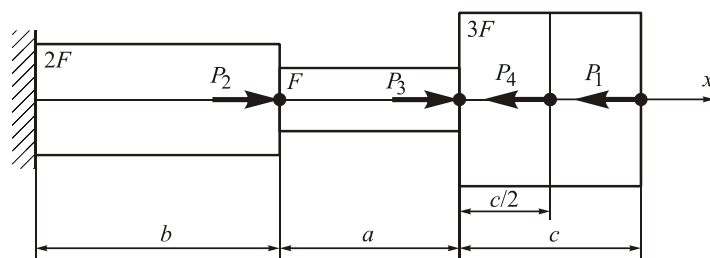
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**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 180

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

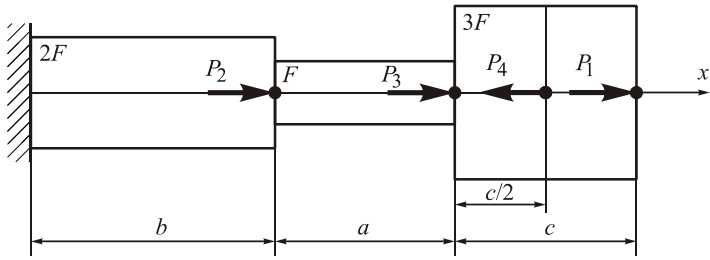
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 181

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

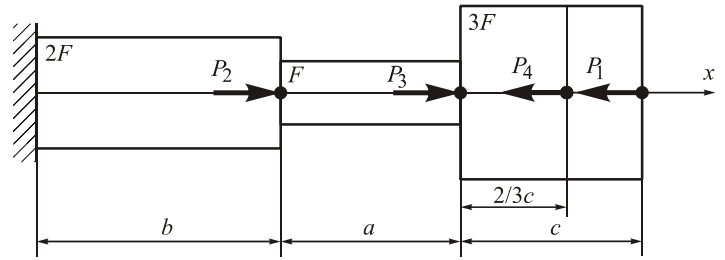
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 182

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

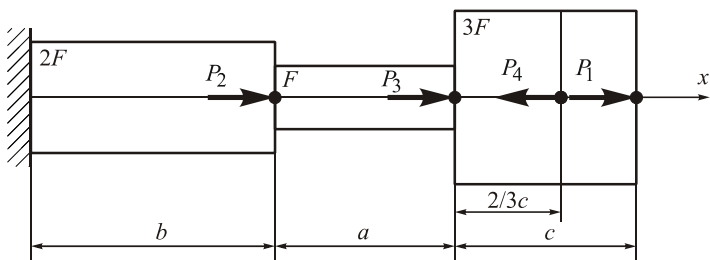
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 183

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

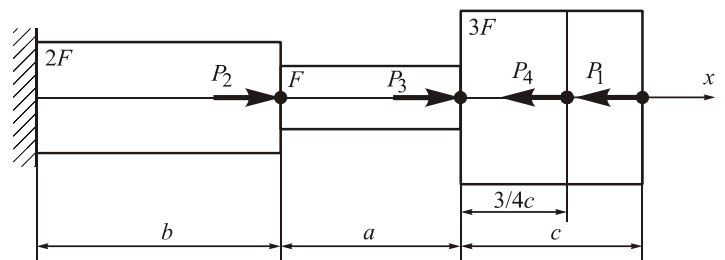
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 184

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer signature

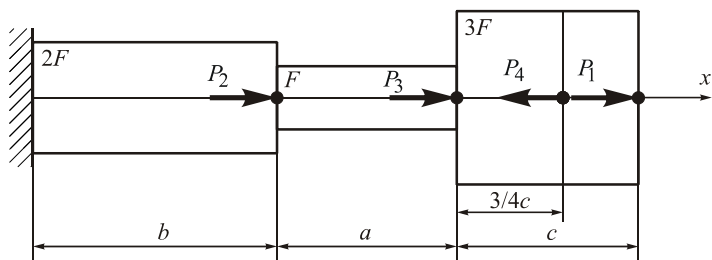
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 185

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

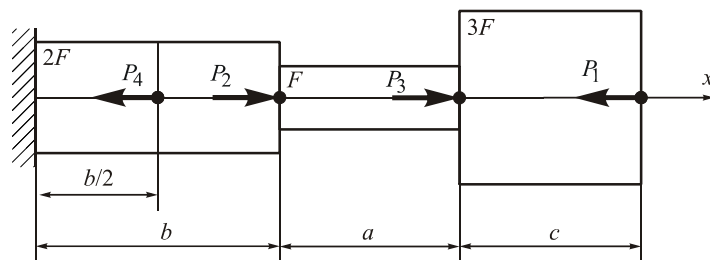
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 186

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

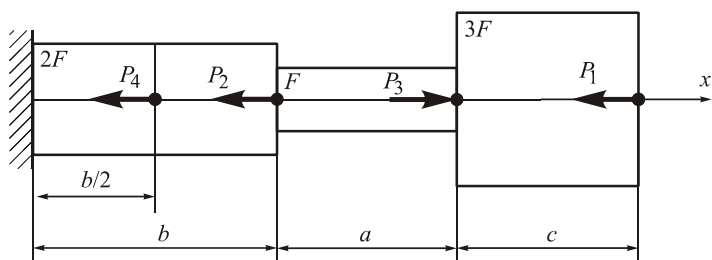
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 187

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

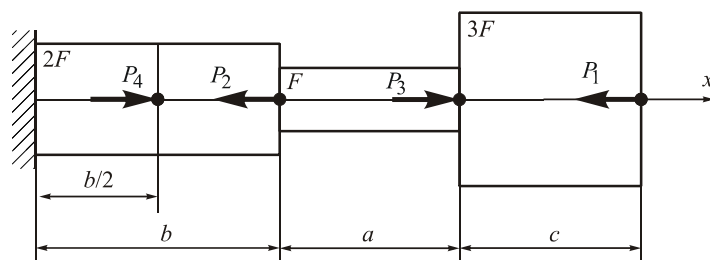
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 188

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

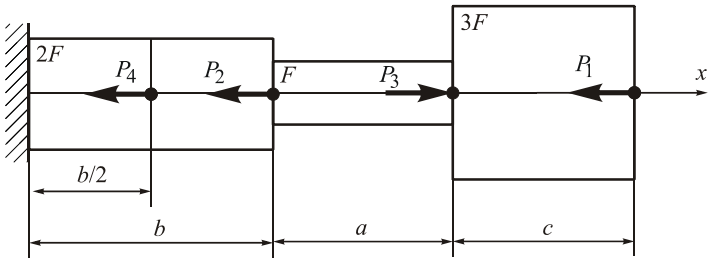
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 189

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

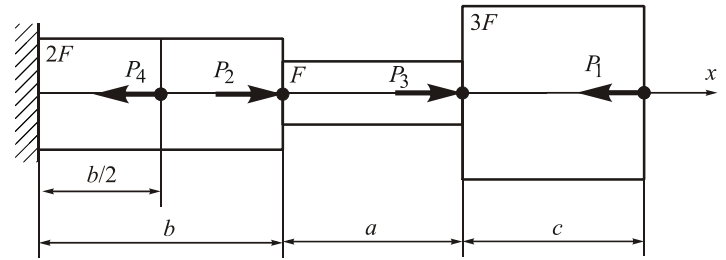
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 190

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

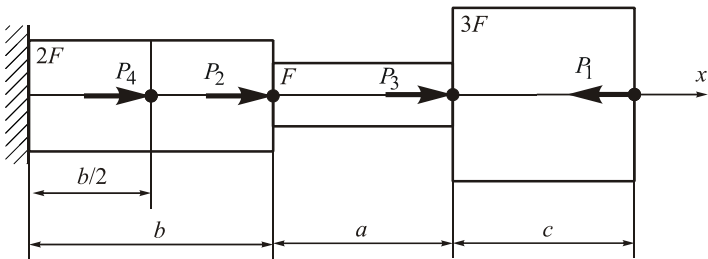
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 191

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

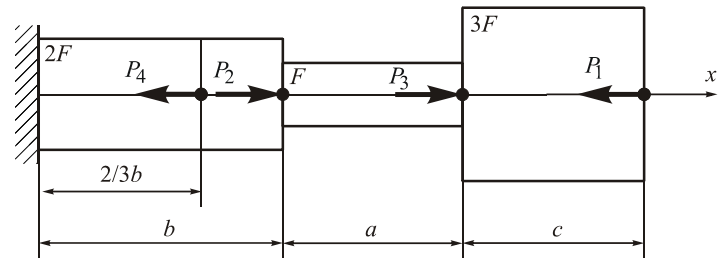
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 192

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

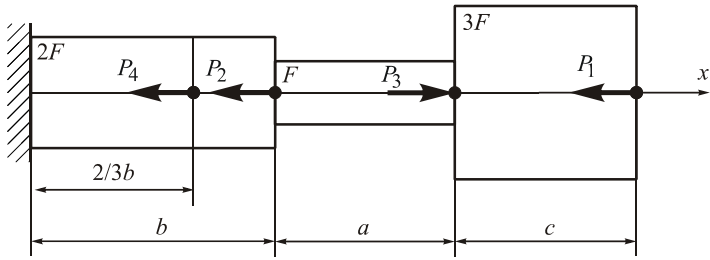


**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 193

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

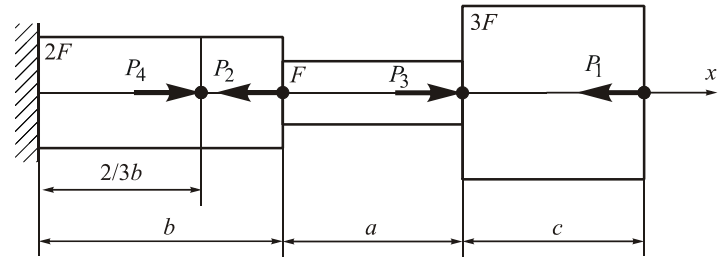
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 194

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

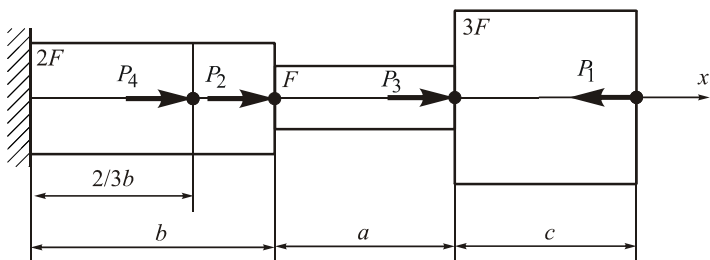
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 195

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

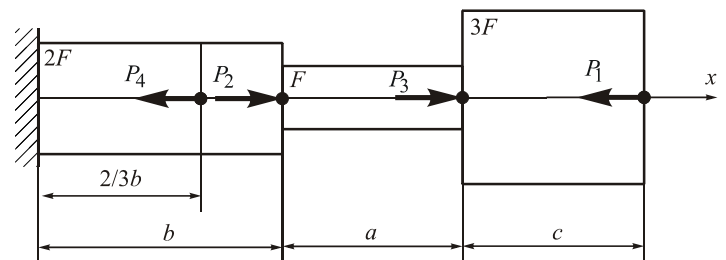
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 196

Complexity: 2



**Given:**  $P_1 = 30 \text{ kN}$ ,  $P_2 = 50 \text{ kN}$ ,  $P_3 = 80 \text{ kN}$ ,  $P_4 = 40 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

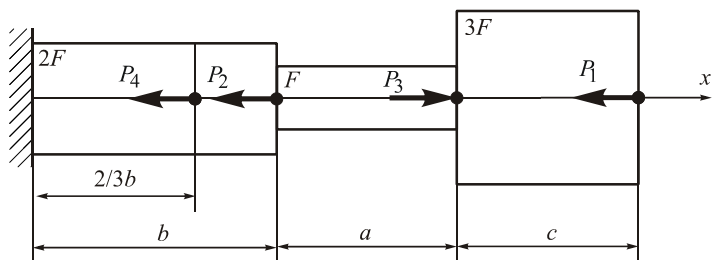
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 197

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

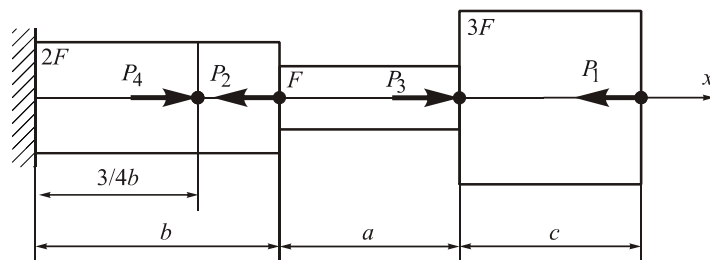
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 198

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

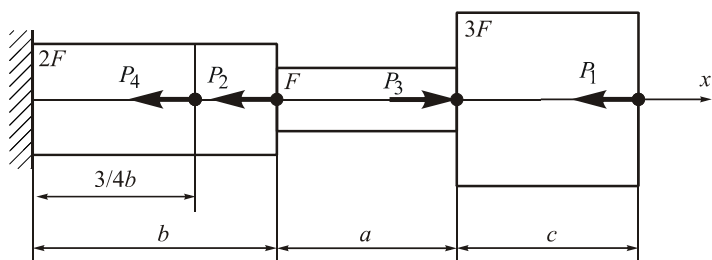
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 199

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

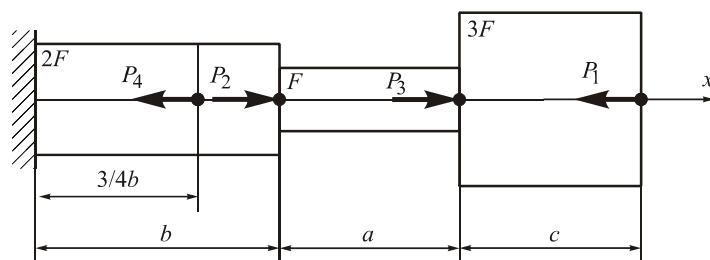
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 200

Complexity: 2



**Given:**  $P_1 = 30$  kN,  $P_2 = 50$  kN,  $P_3 = 80$  kN,  $P_4 = 40$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

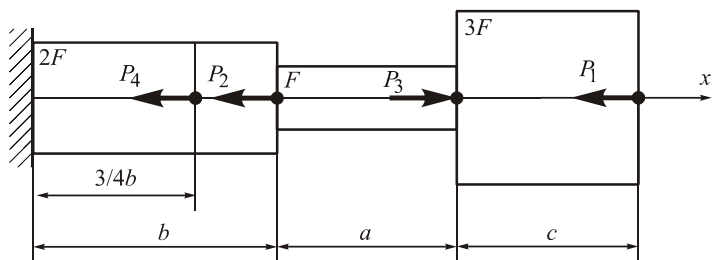
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 201

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

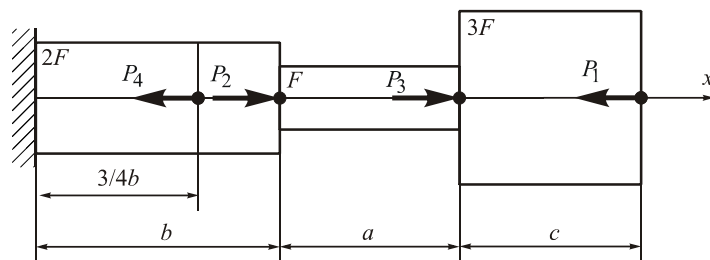
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 202

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

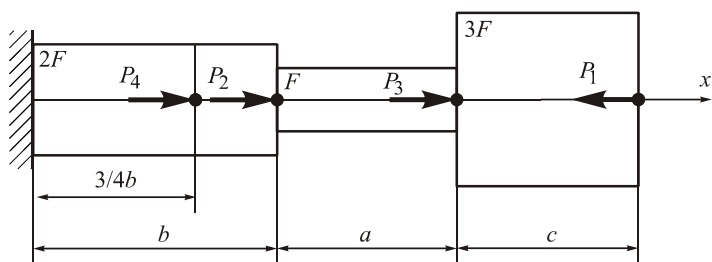
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 203

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

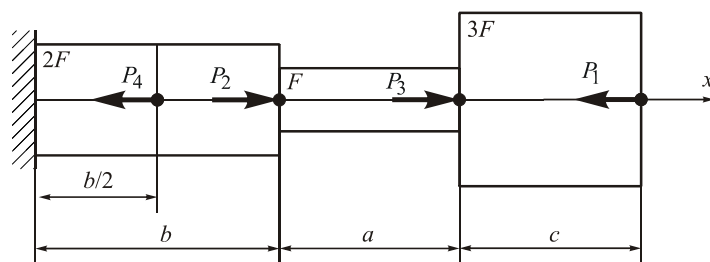
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 204

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

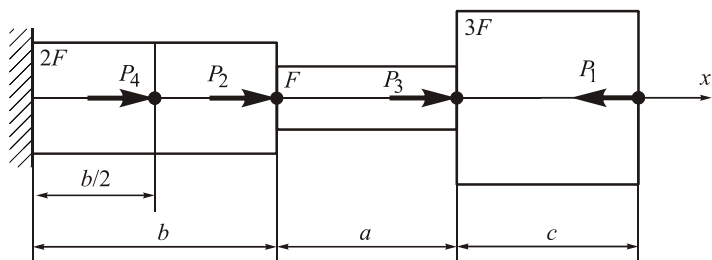
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 205

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

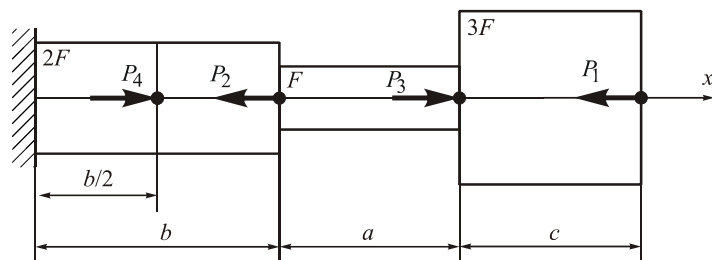
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 206

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

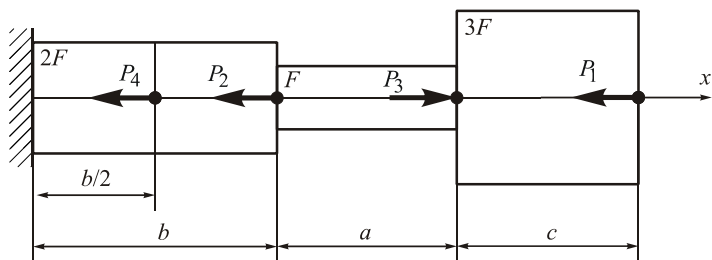
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 207

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

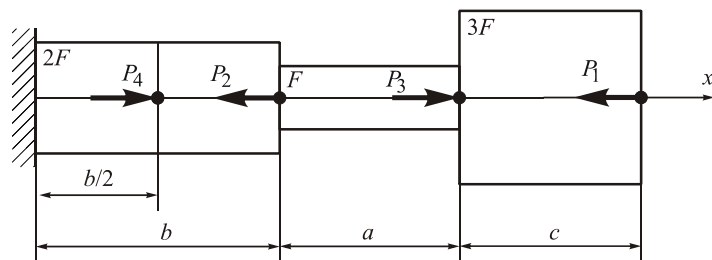
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 208

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

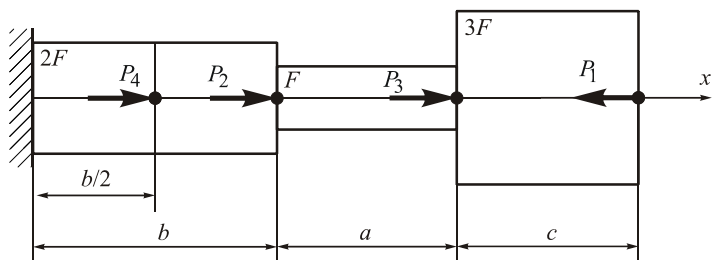
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 209

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

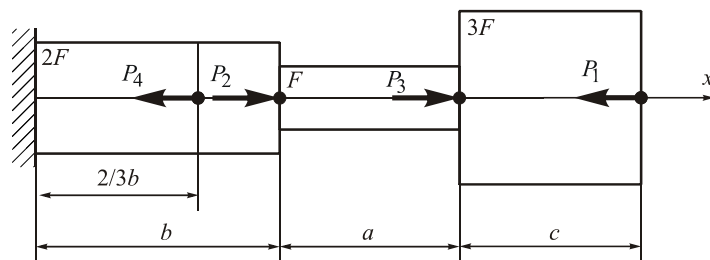
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 210

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

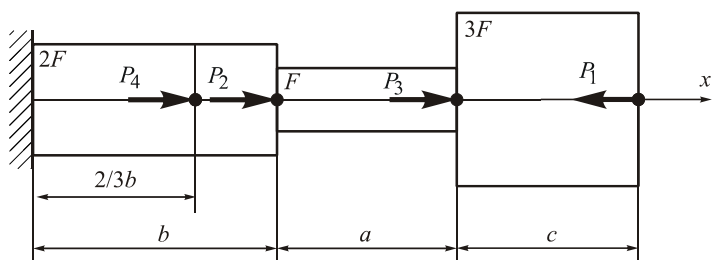
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 211

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

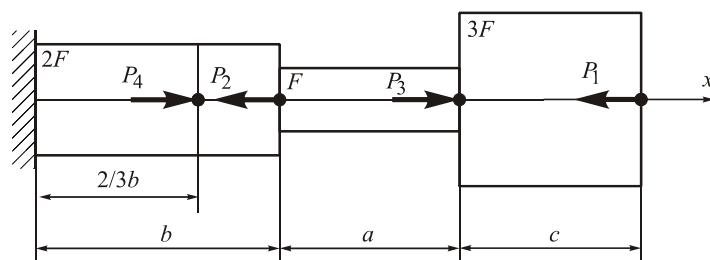
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 212

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

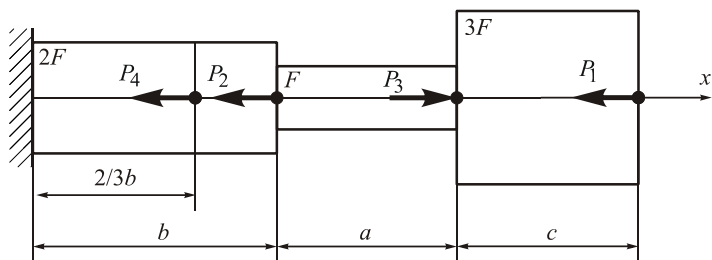
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 213

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

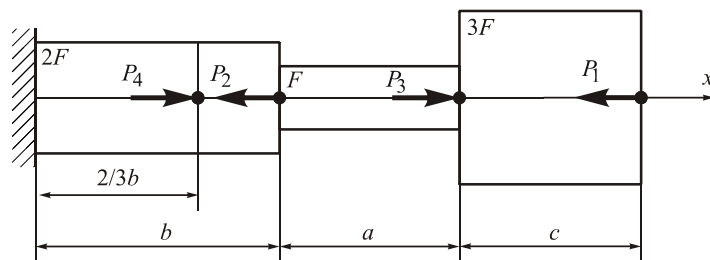
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 214

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

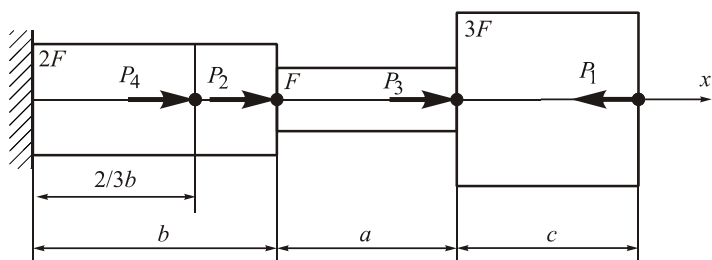
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 215

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

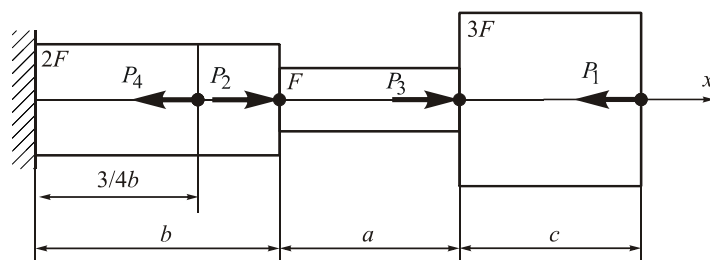
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 216

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

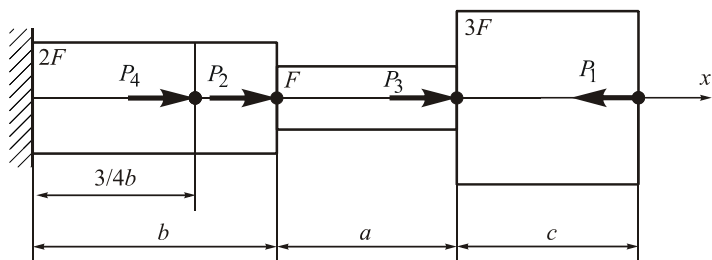
**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

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**Variant: 217**

**Complexity: 2**



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

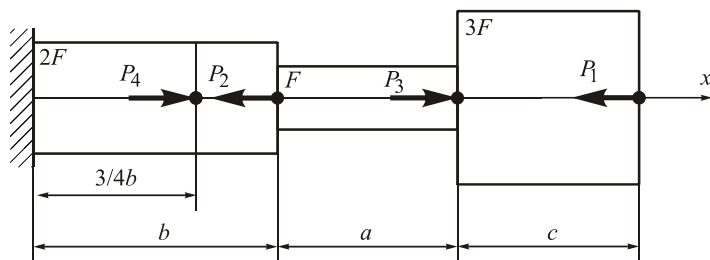
**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

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**Variant: 218**

**Complexity: 2**



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

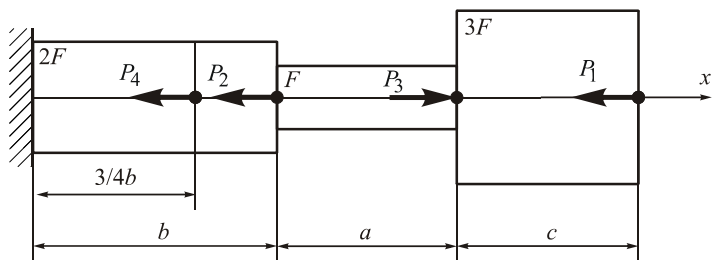
**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

---

**Variant: 219**

**Complexity: 2**



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

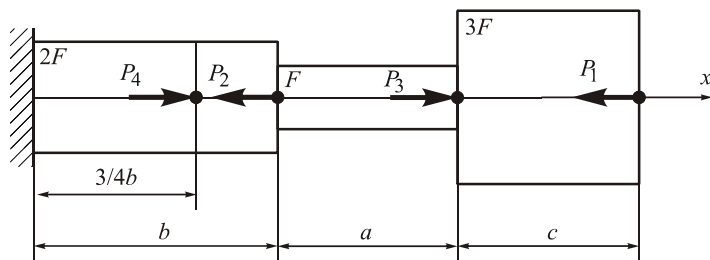
**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

---

**Variant: 220**

**Complexity: 2**



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

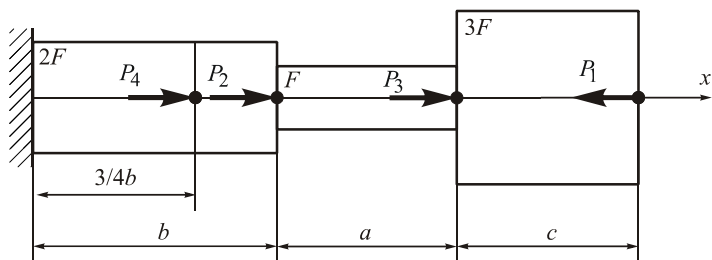
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 221

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

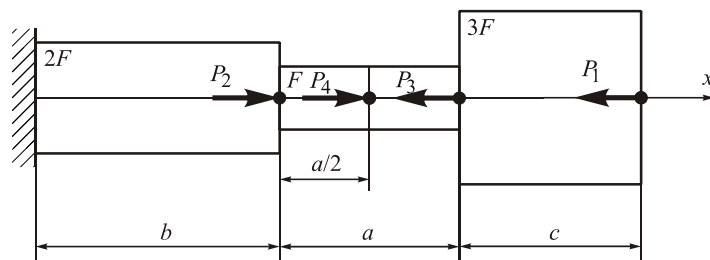
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 222

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

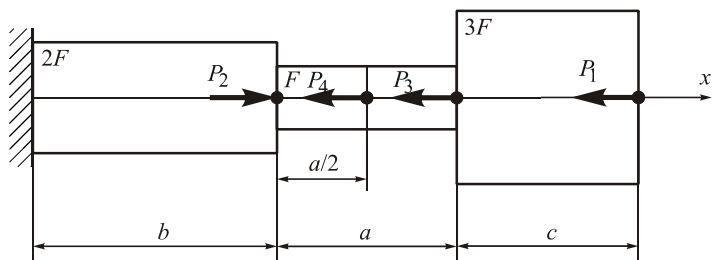
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 223

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

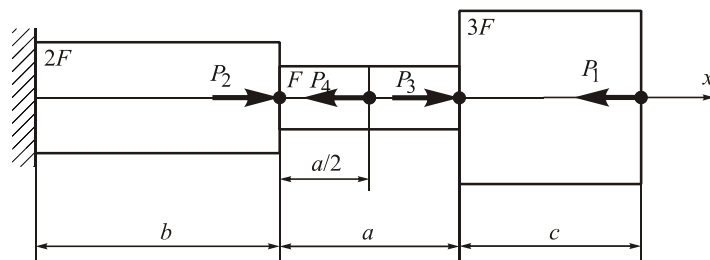
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 224

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

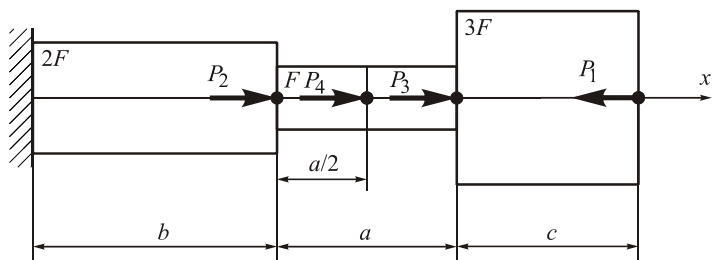


**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 225

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

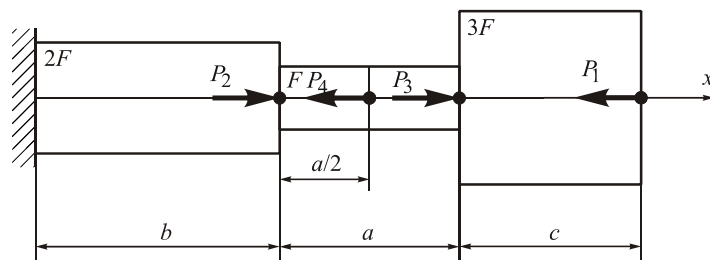
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**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 226

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

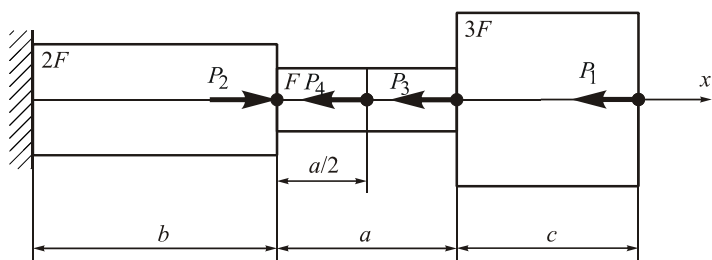
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 227

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

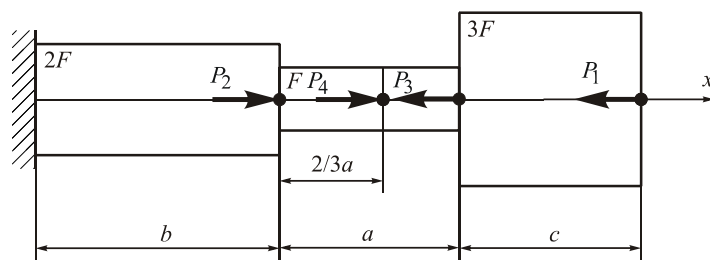
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 228

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

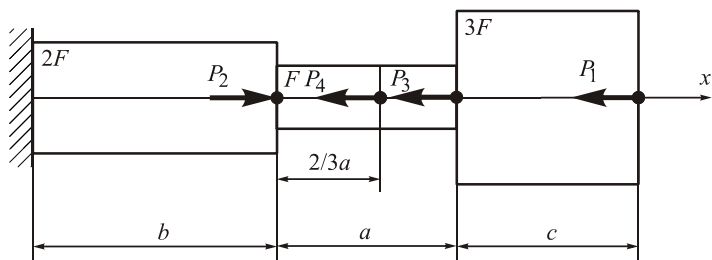
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 229

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

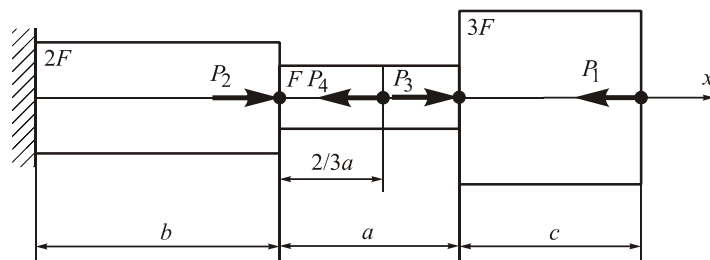
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**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 230

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

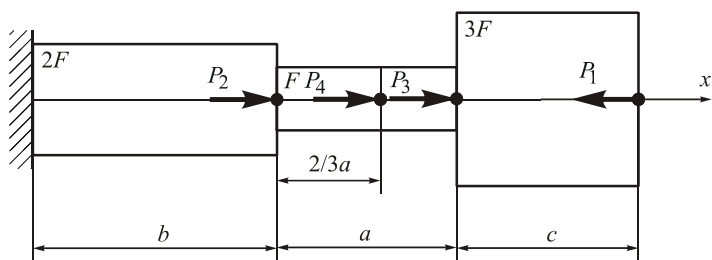
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 231

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

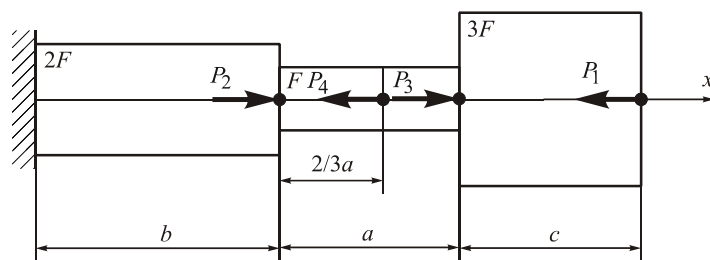
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 232

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

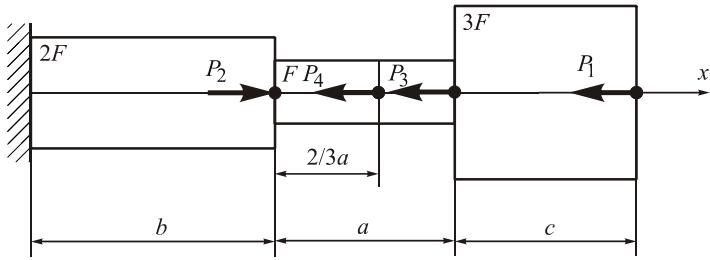
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 233

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

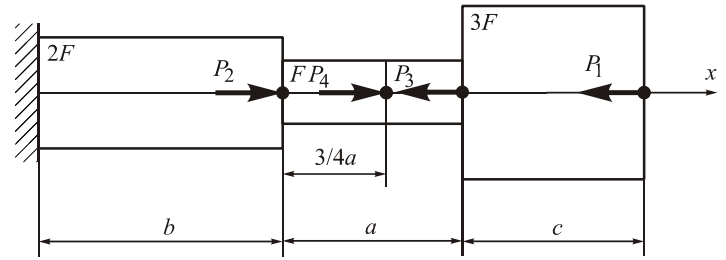
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**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 234

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

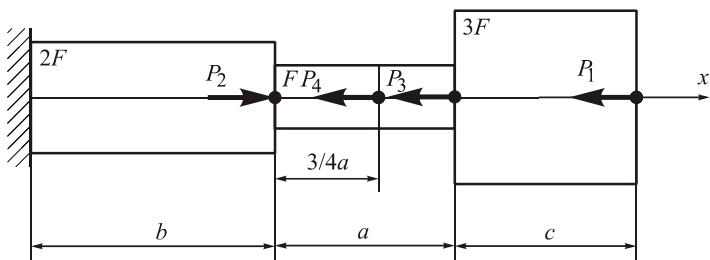
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 235

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

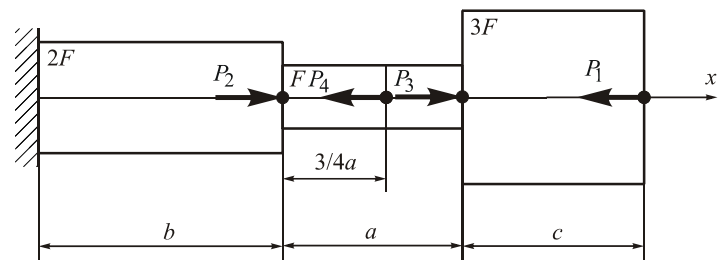
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 236

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

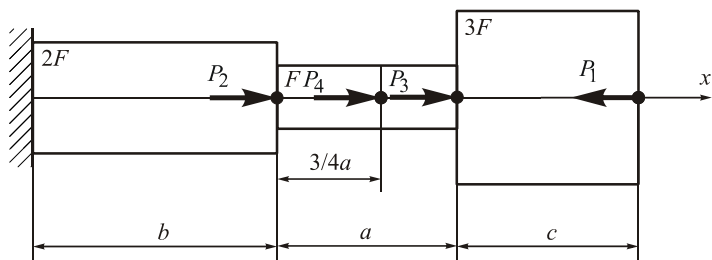
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 237

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

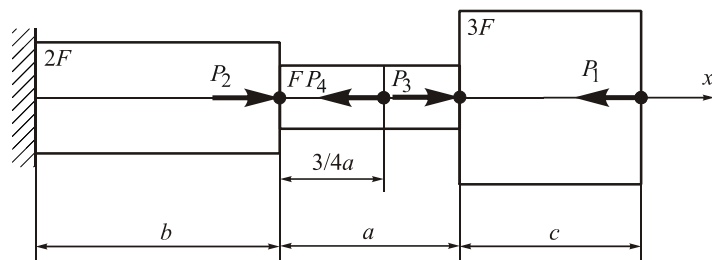
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 238

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

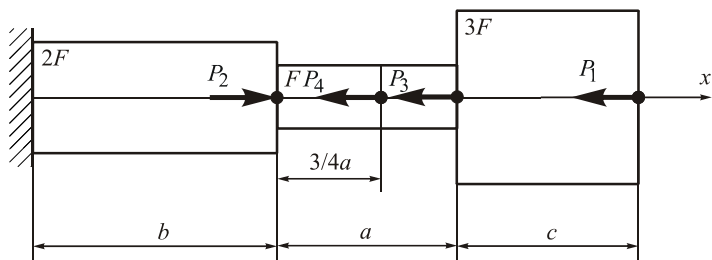
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 239

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

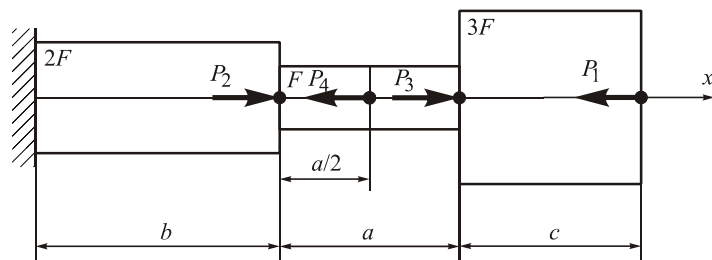
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 240

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

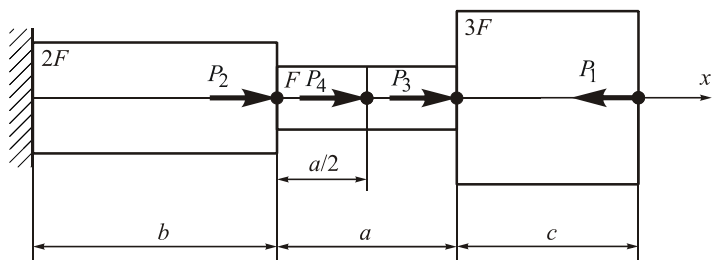
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 241

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

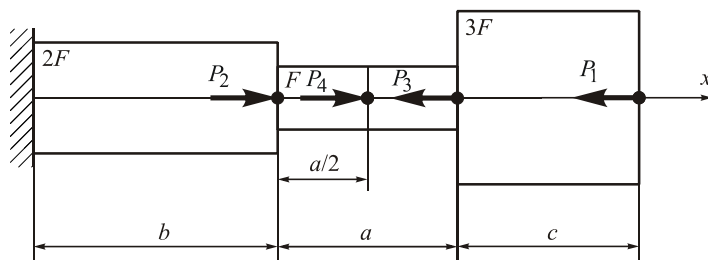
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 242

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

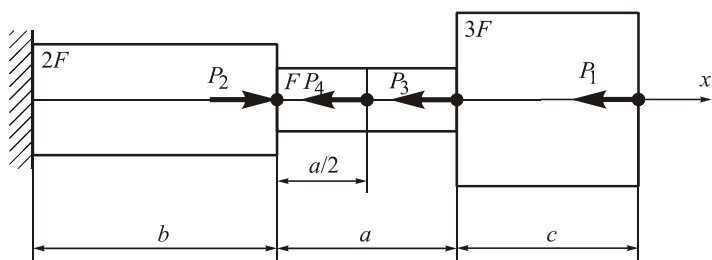
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 243

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

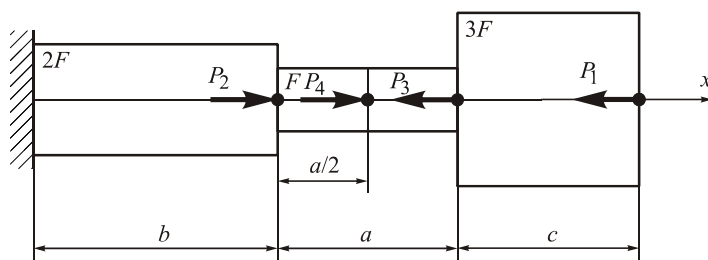
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 244

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

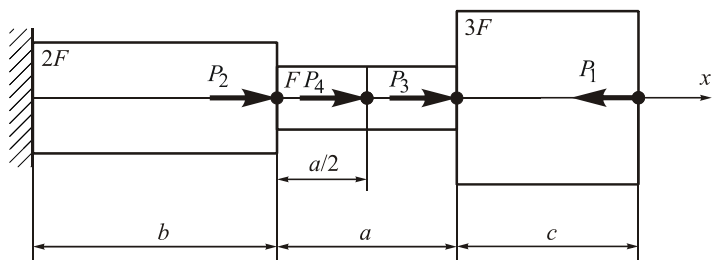
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 245

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

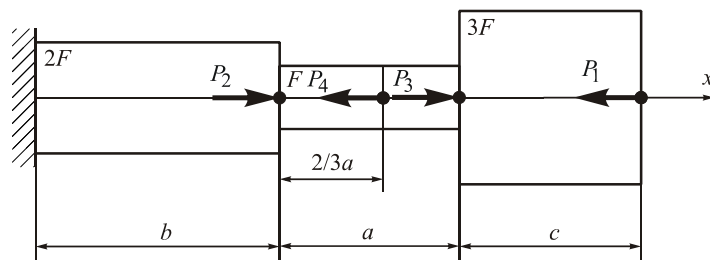
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 246

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

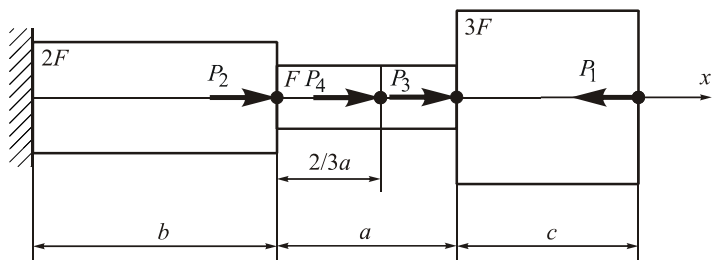
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 247

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

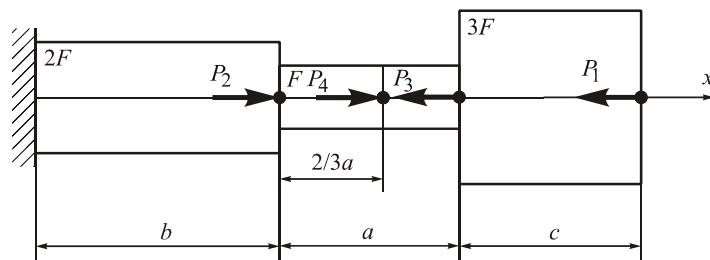
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 248

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

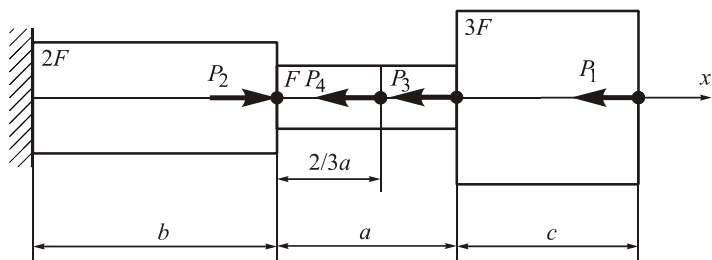
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 249

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

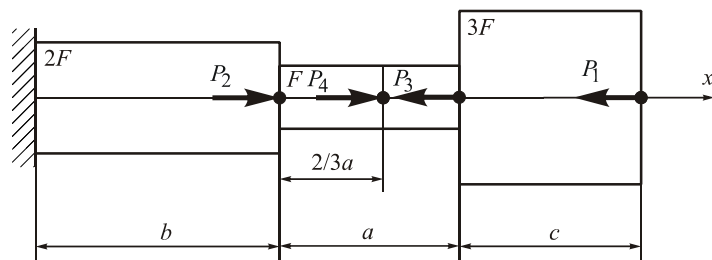
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 250

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

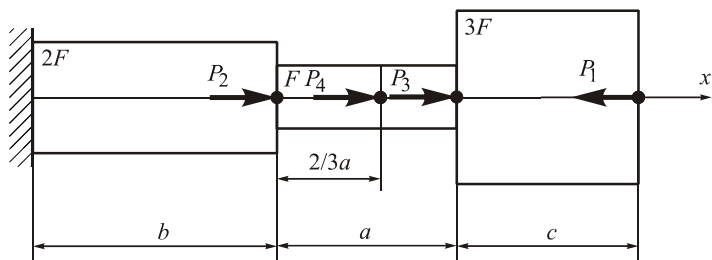
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 251

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

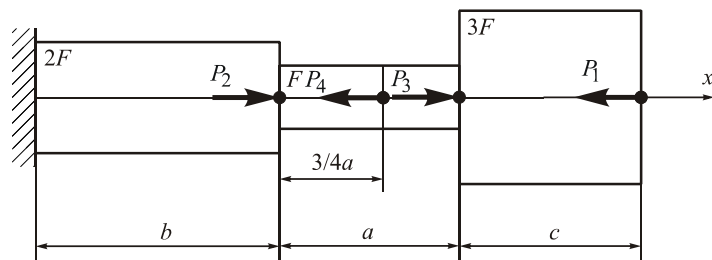
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 252

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

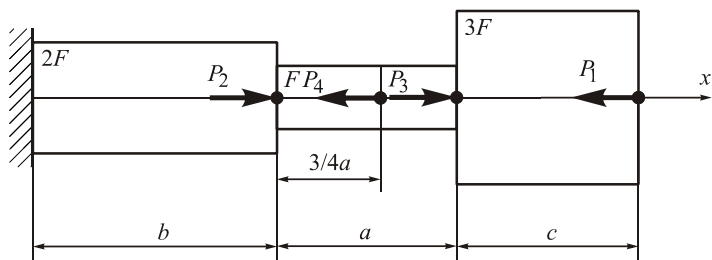
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 253

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

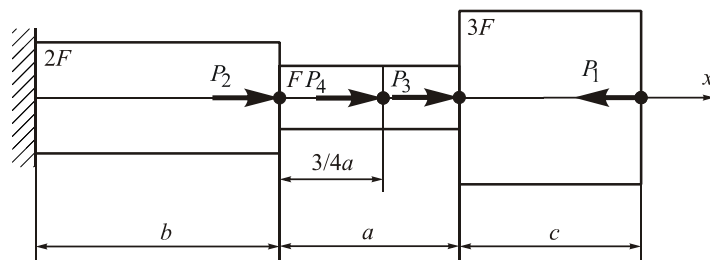
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 254

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

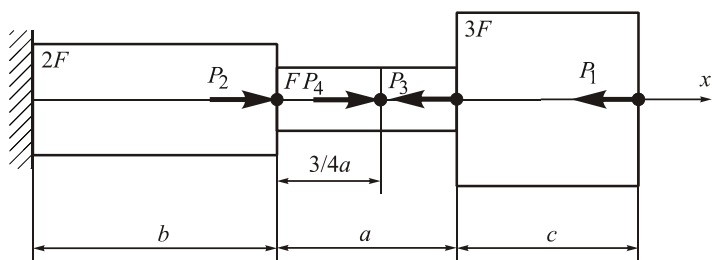
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 255

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

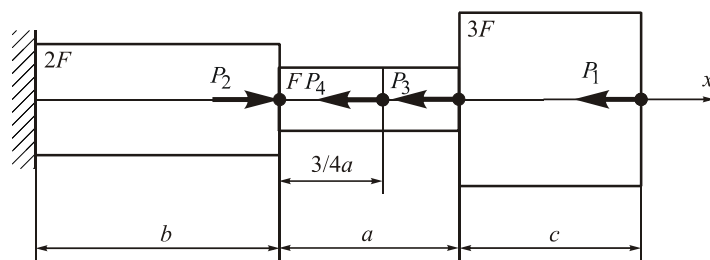
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 256

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

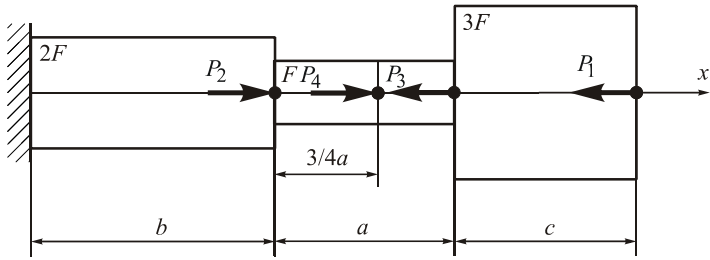


**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 257

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

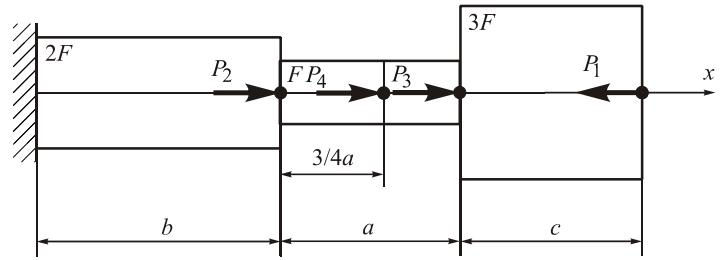
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 258

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

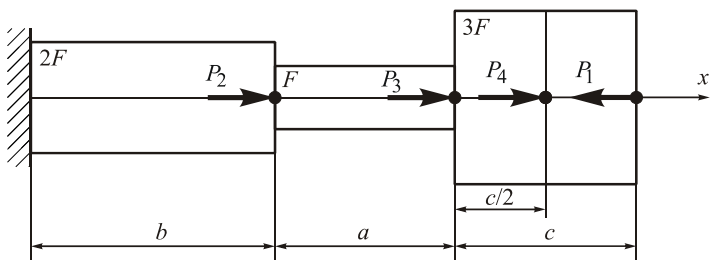
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 259

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

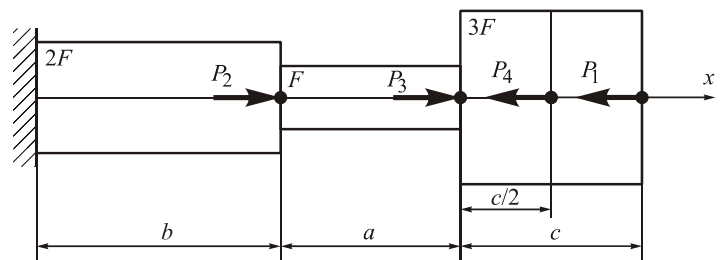
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 260

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

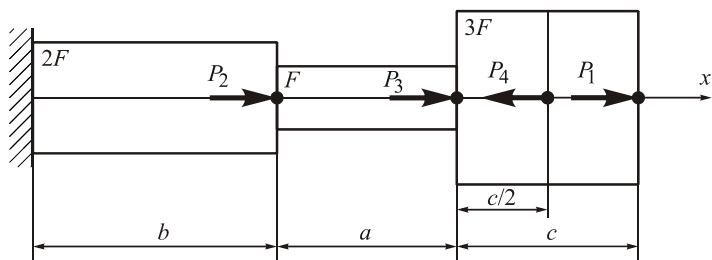
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 261

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

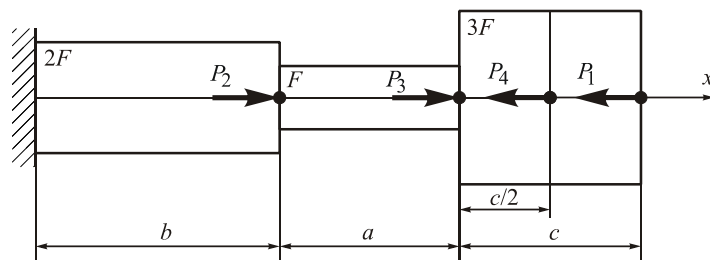
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 262

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

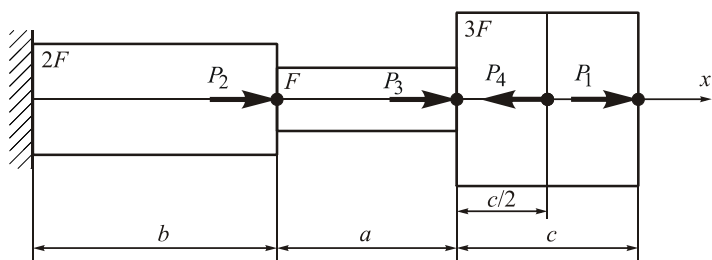
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 263

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

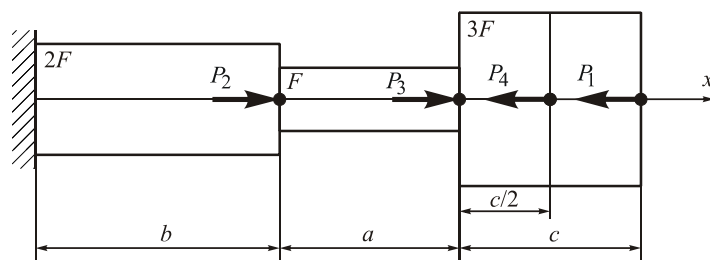
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 264

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

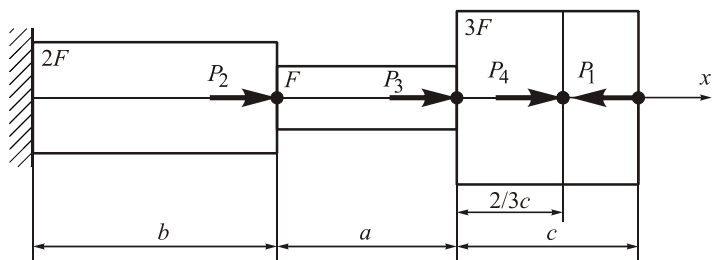
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 265

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

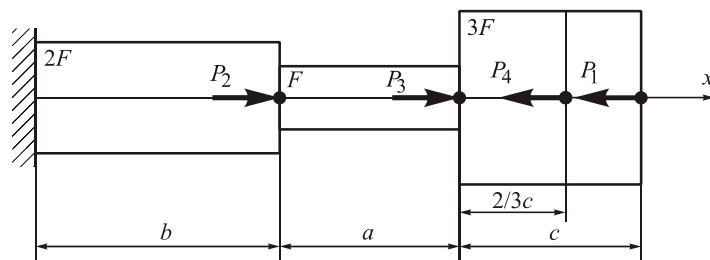
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 266

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

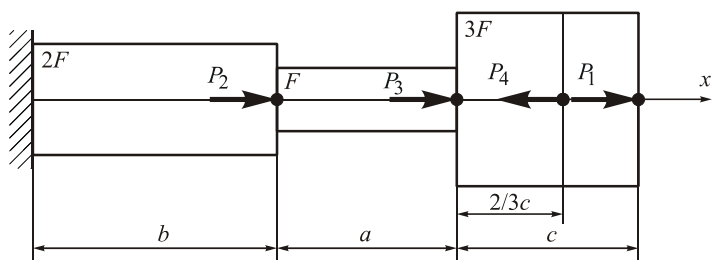
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 267

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

Subject: mechanics of materials

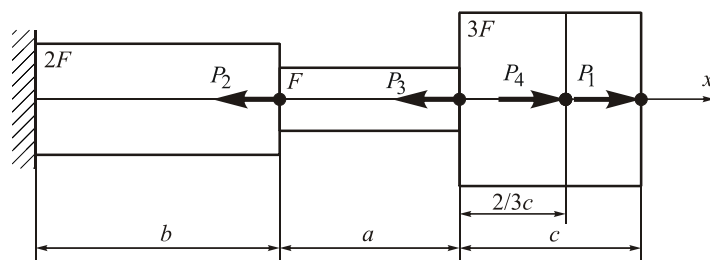
Document: home problem

Topic: graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 268

Complexity: 2



Given:  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

Goal: obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

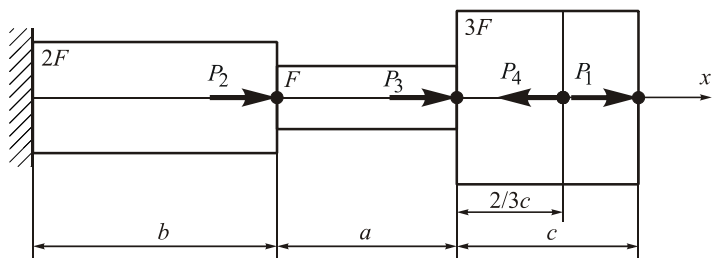
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 269

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

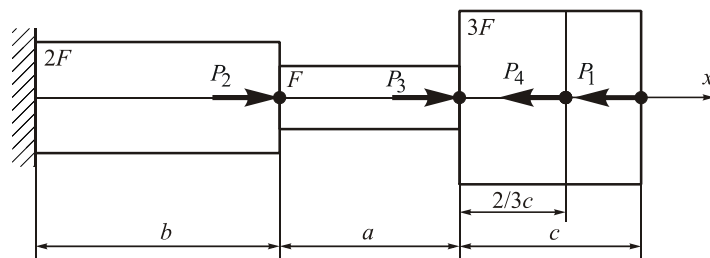
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 270

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

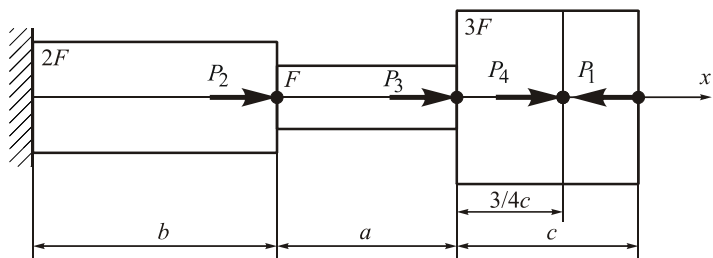
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 271

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

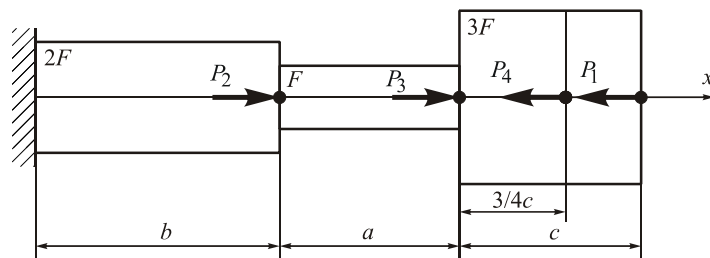
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 272

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

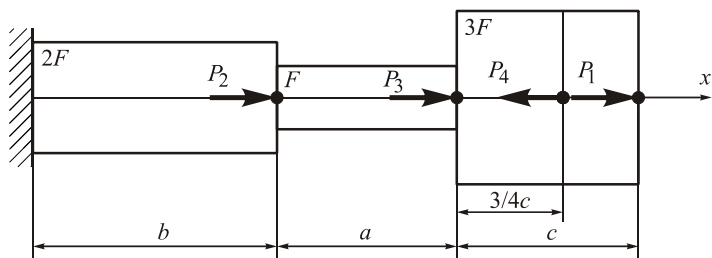
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 273

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

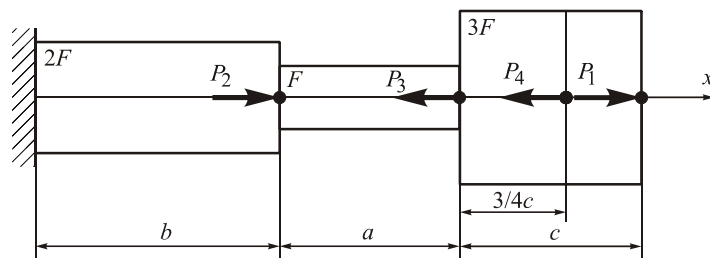
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 274

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

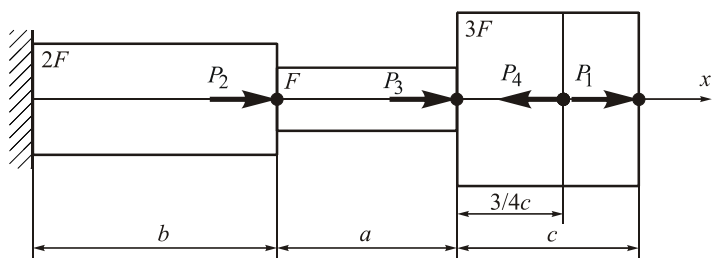
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 275

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

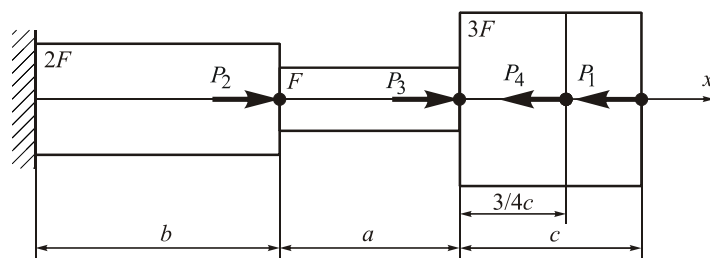
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 276

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

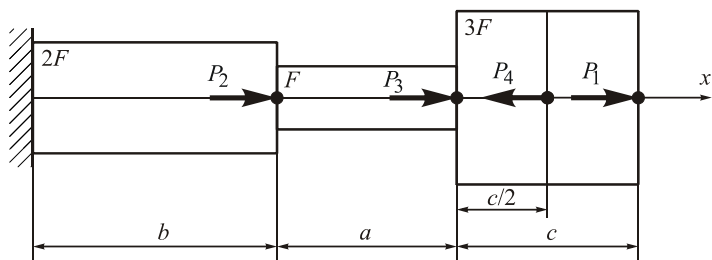
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 277

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

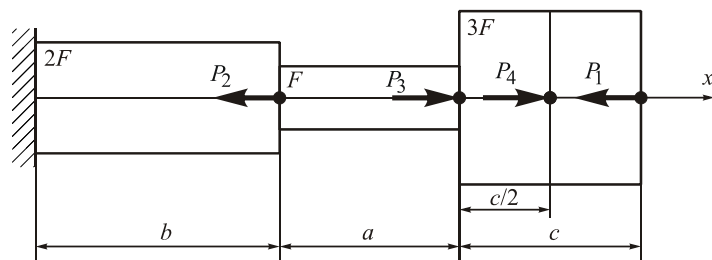
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 278

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

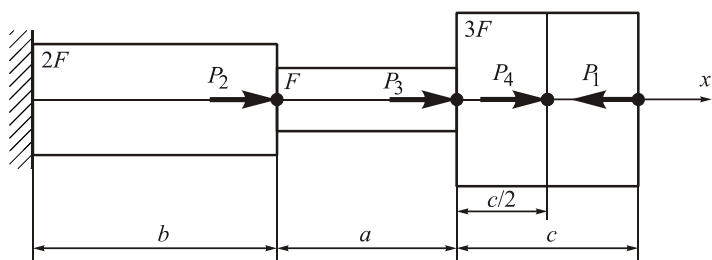
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 279

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

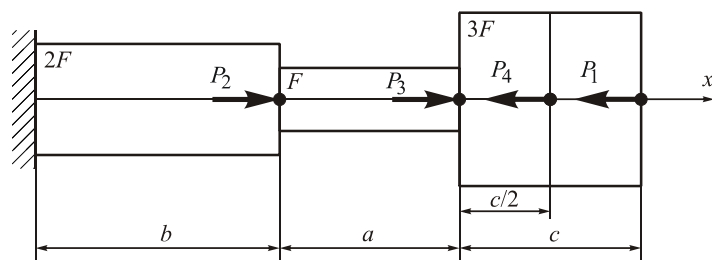
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 280

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

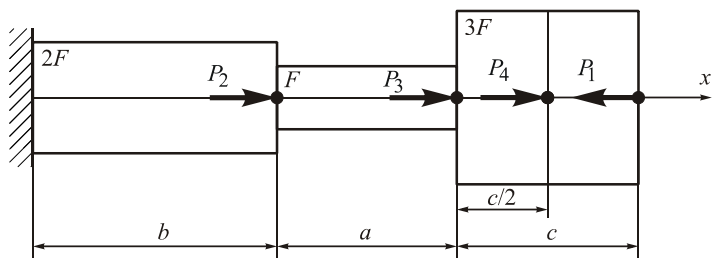
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 281

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

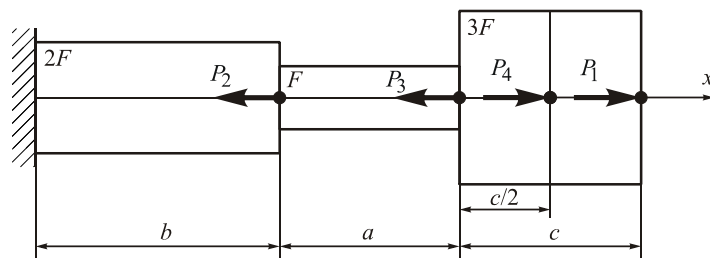
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 282

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

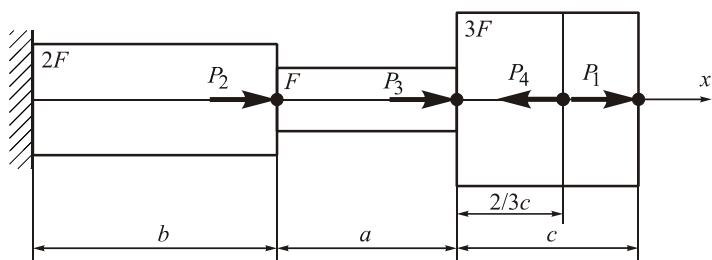
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 283

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

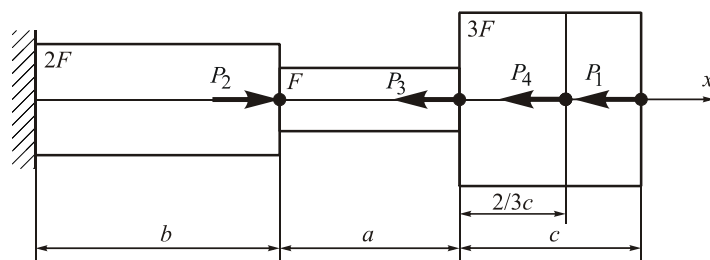
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 284

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

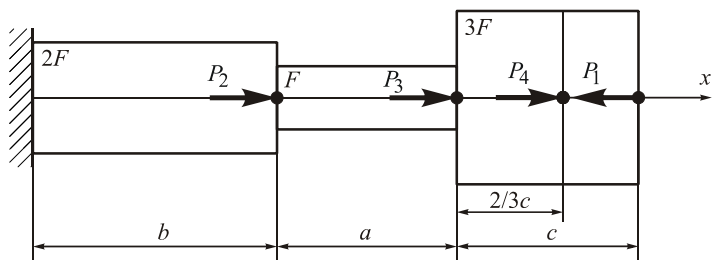
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 285

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

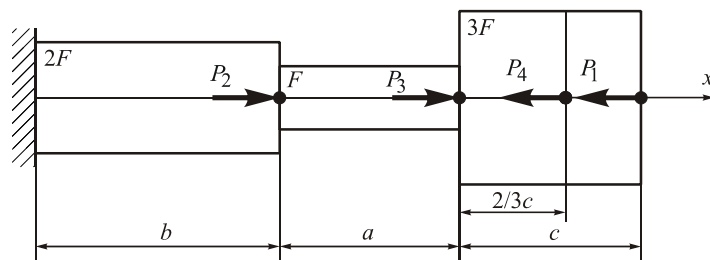
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 286

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

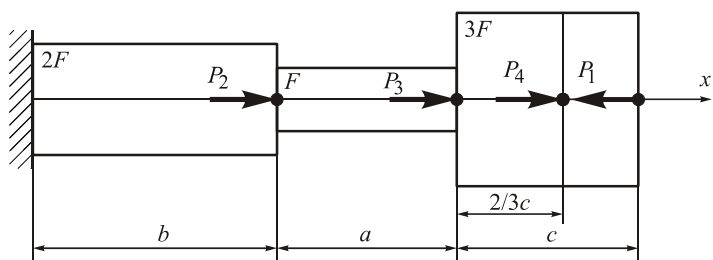
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 287

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

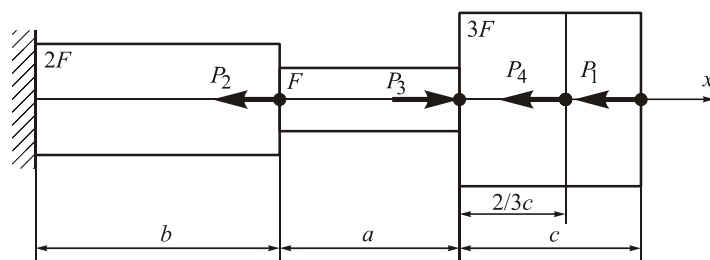
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 288

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark:

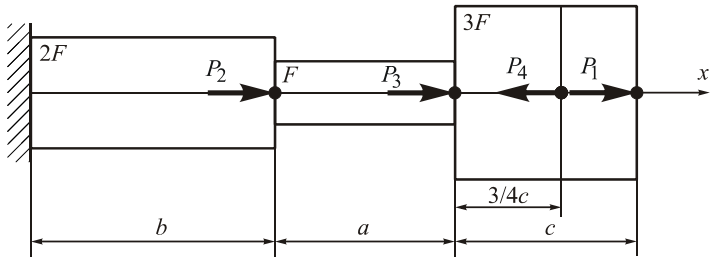


**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 289

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

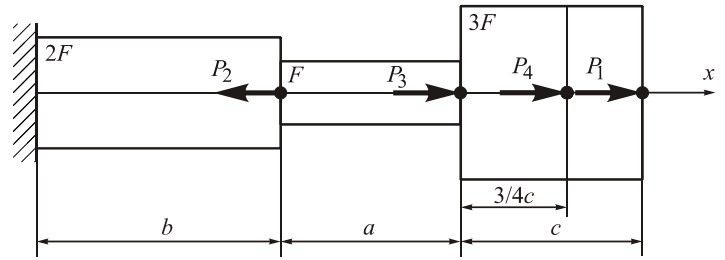
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 290

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

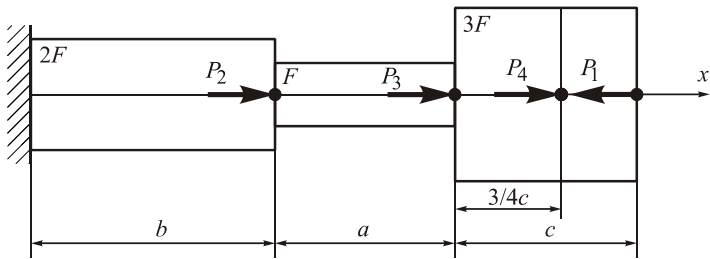
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 291

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

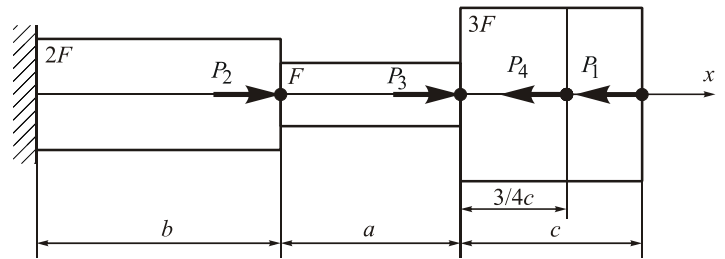
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 292

Complexity: 2



**Given:**  $P_1 = 40 \text{ kN}$ ,  $P_2 = 60 \text{ kN}$ ,  $P_3 = 120 \text{ kN}$ ,  $P_4 = 60 \text{ kN}$ ,  
 $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

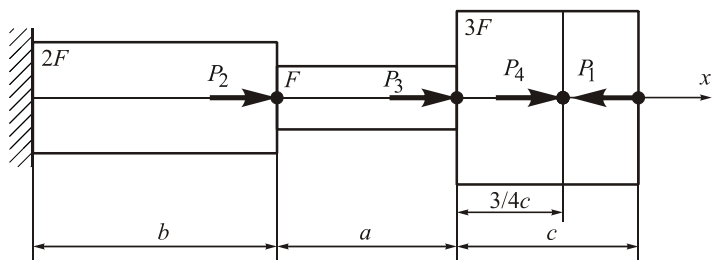
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 293

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

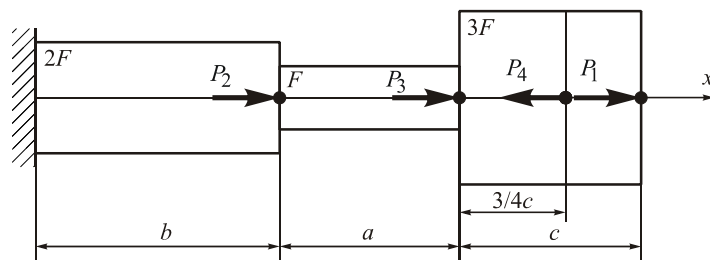
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 294

Complexity: 2



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  $P_4 = 60$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

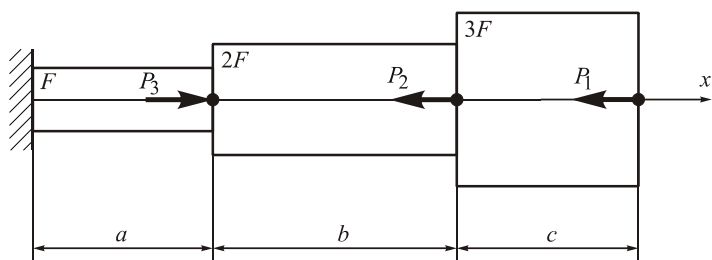
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 295

Complexity: 1



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

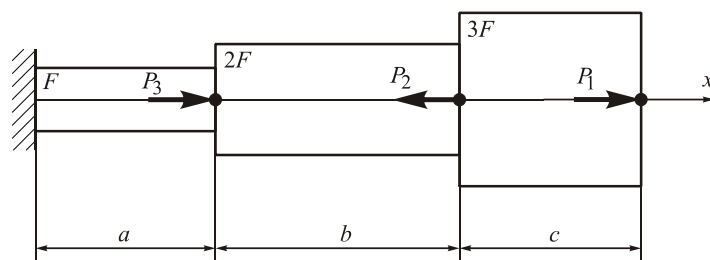
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 296

Complexity: 1



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

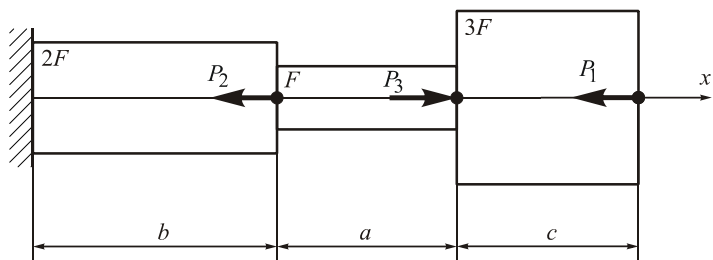
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 297

Complexity: 1



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

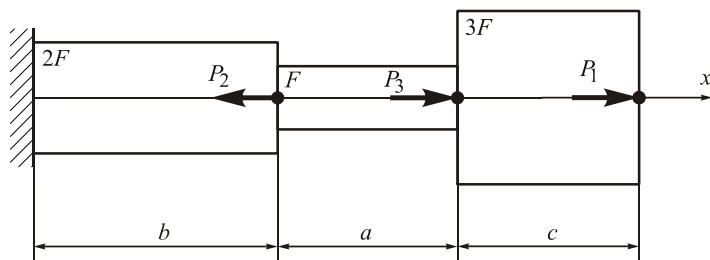
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 298

Complexity: 1



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

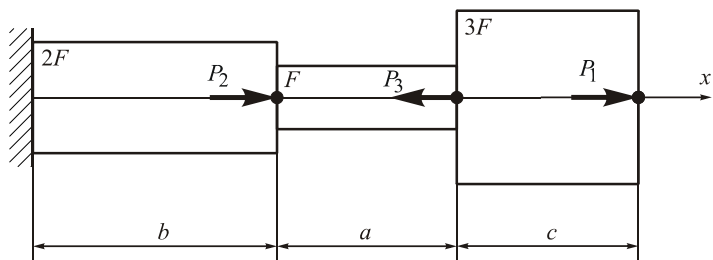
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 299

Complexity: 1



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

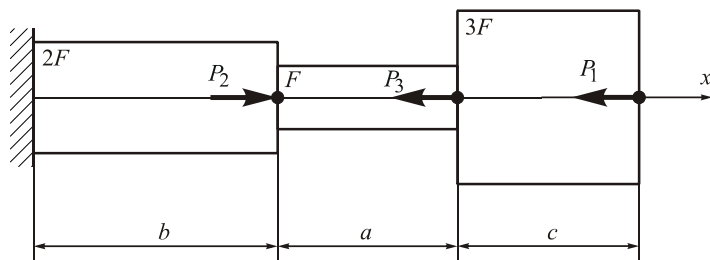
Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of normal force distribution in tension-compression of a rod

Full name of the student, group

Variant: 300

Complexity: 1



**Given:**  $P_1 = 40$  kN,  $P_2 = 60$  kN,  $P_3 = 120$  kN,  
 $a = 3$  m,  $b = 4$  m,  $c = 5$  m.

**Goal:** obtain equations of normal force in cross-sections of a rod and draw the graphs of its distribution along the length of a rod.

Full name of the lecturer

signature

Mark: