

**Subject:** mechanics of materials

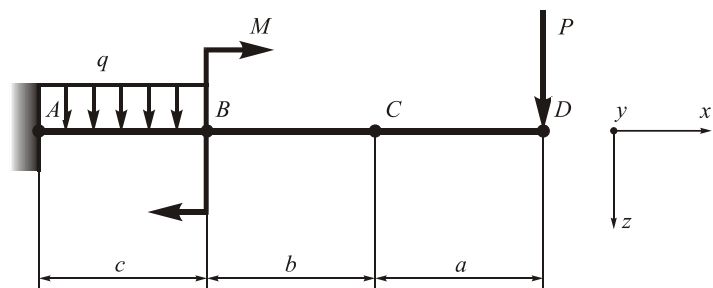
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 1**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

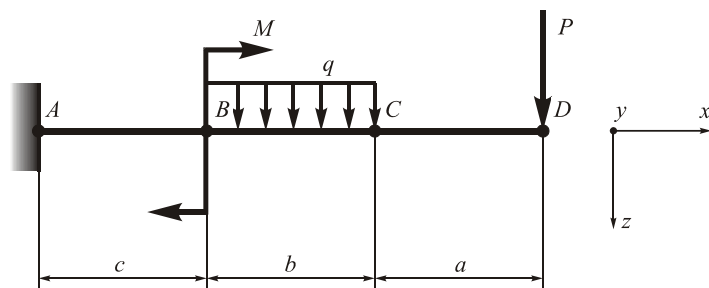
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 2**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

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**Subject:** mechanics of materials

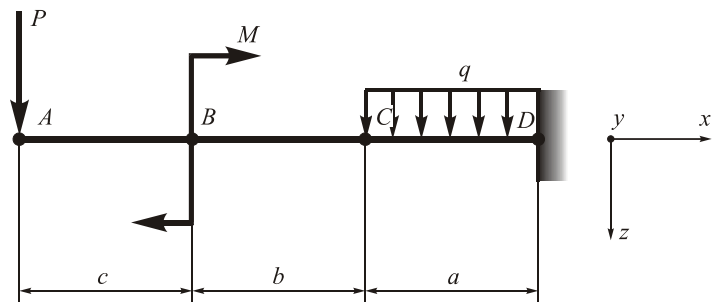
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 3**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

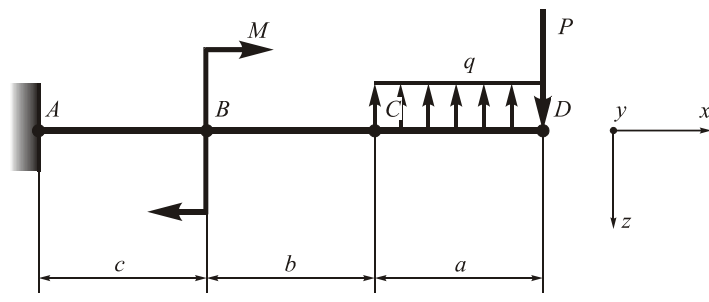
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 4**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

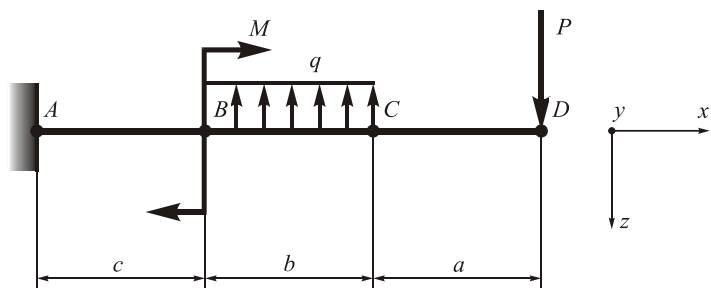
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 5**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

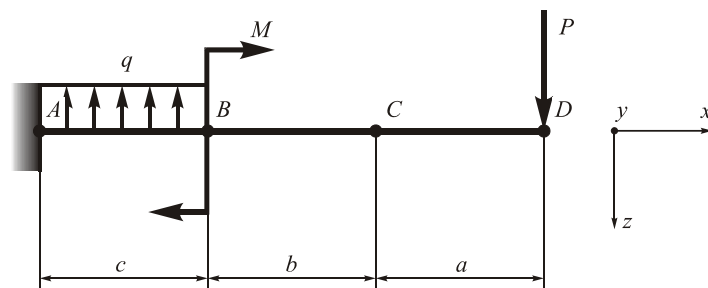
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 6**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

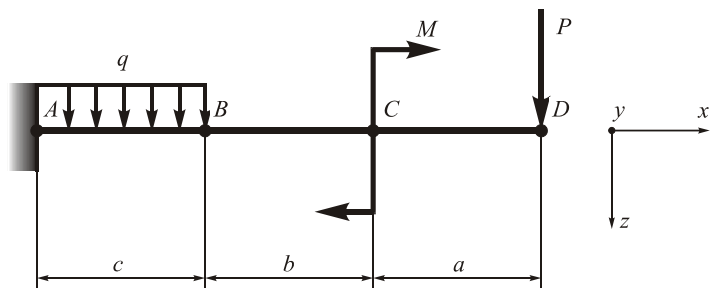
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 7**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

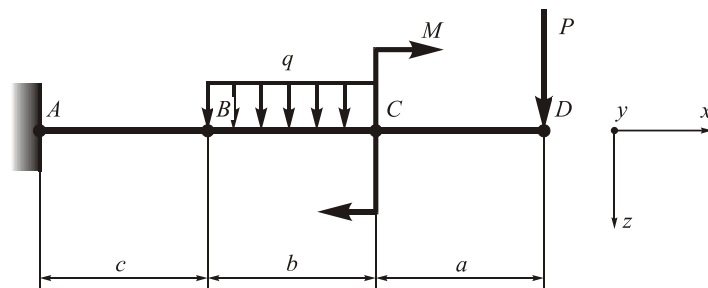
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 8**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

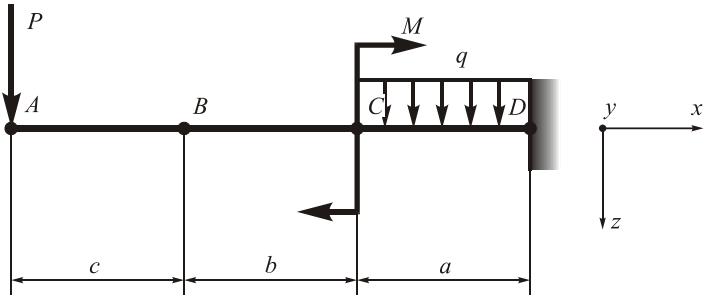
**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 9** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

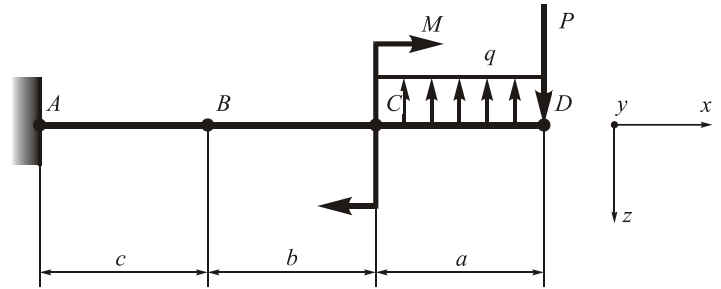
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer** **signature**

**Mark:**

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 10** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

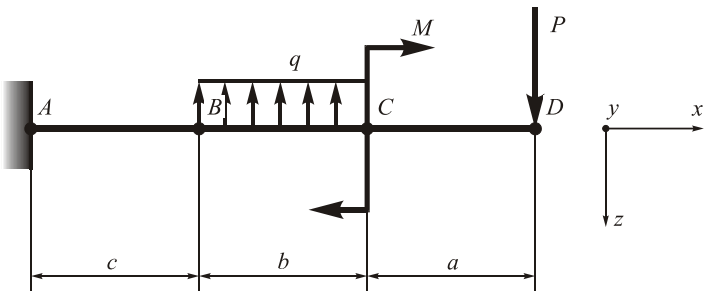
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer** **signature**

**Mark:**

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 11** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

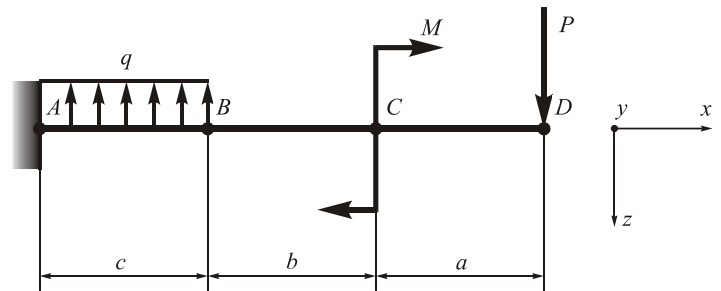
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer** **signature**

**Mark:**

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 12** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

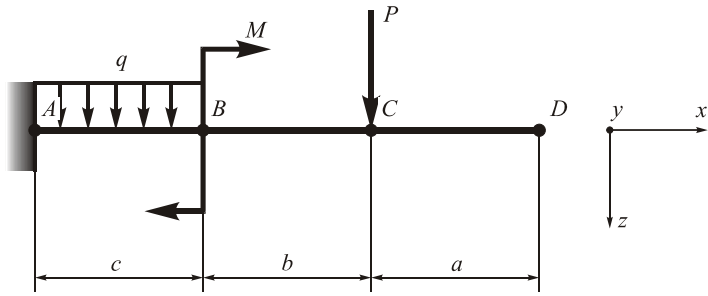
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer** **signature**

**Mark:**

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 13** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

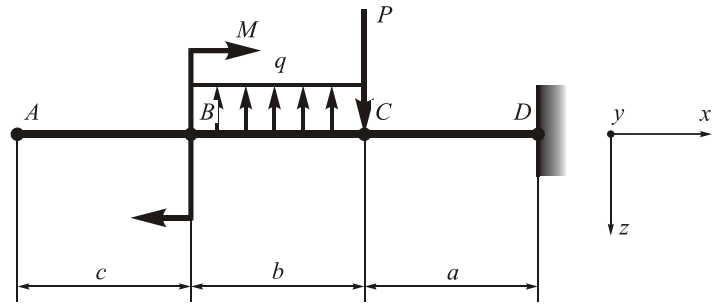
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer** **signature**

**Mark:**

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 14** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

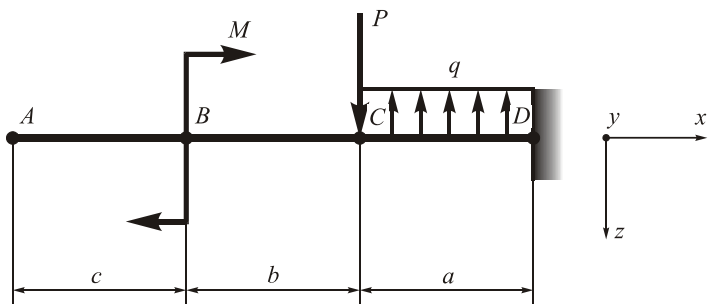
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer** **signature**

**Mark:**

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 15** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

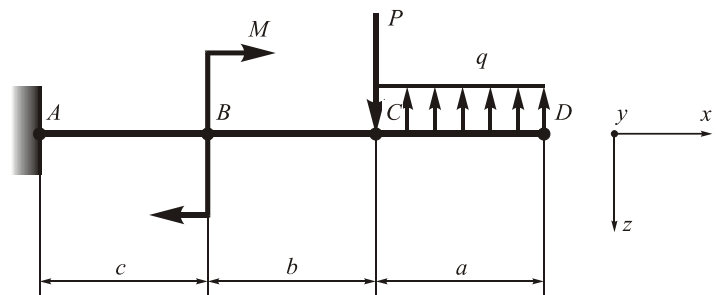
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer** **signature**

**Mark:**

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 16** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer** **signature**

**Mark:**

**Subject:** mechanics of materials

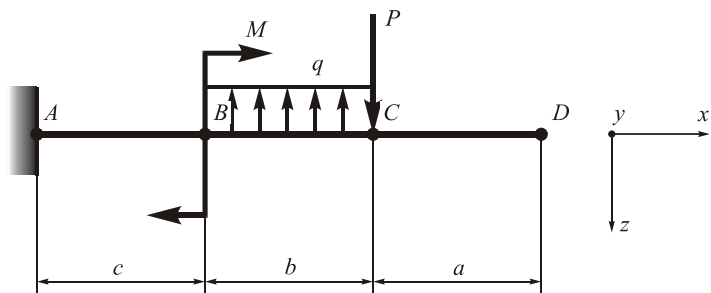
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 17**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

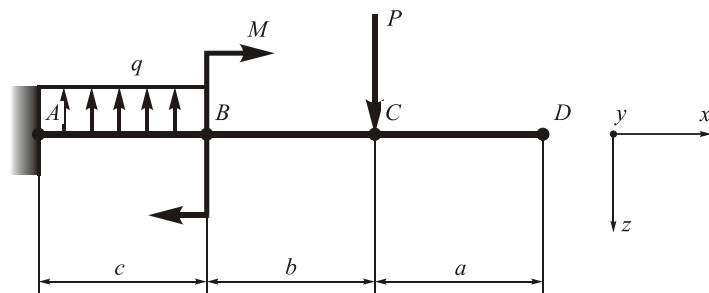
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 18**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

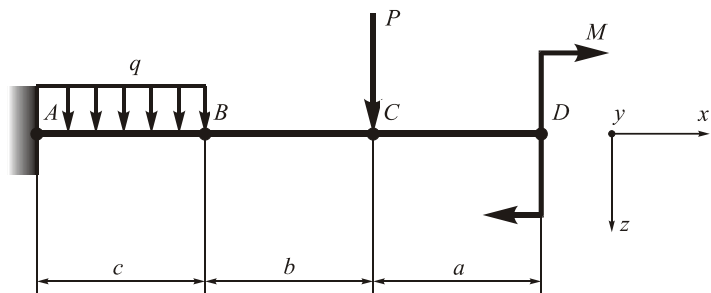
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 19**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

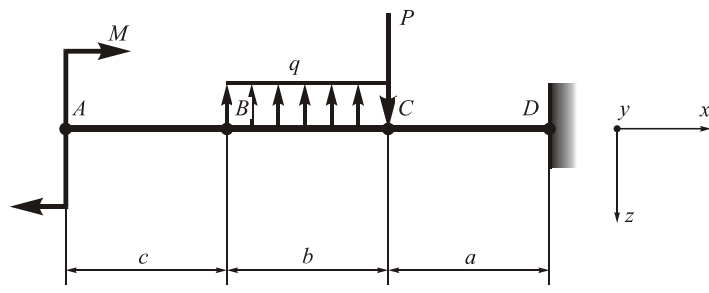
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 20**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

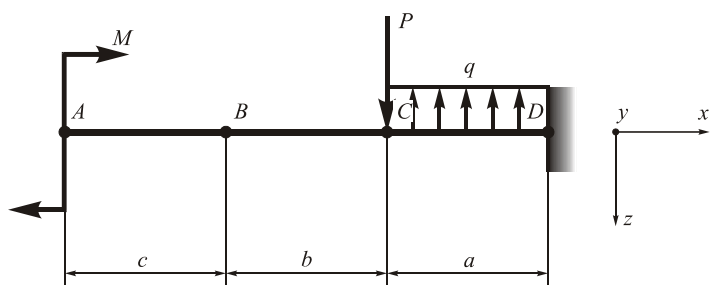
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 21**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

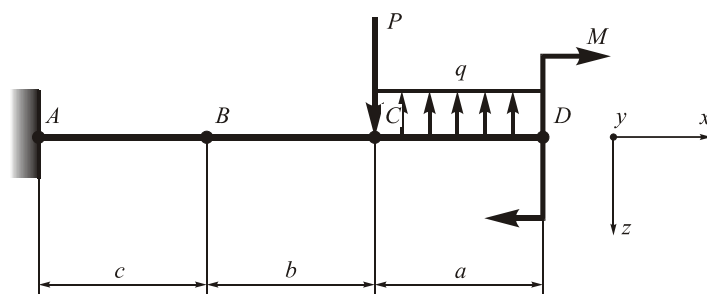
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 22**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 5 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

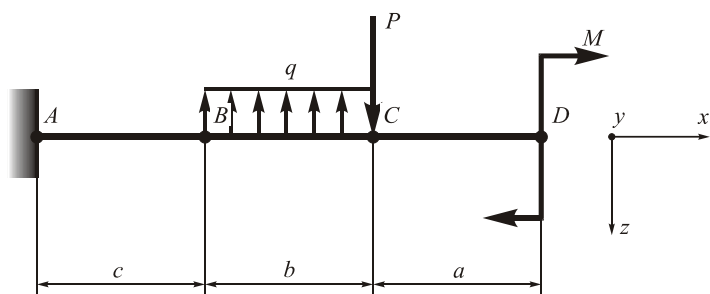
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 23**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

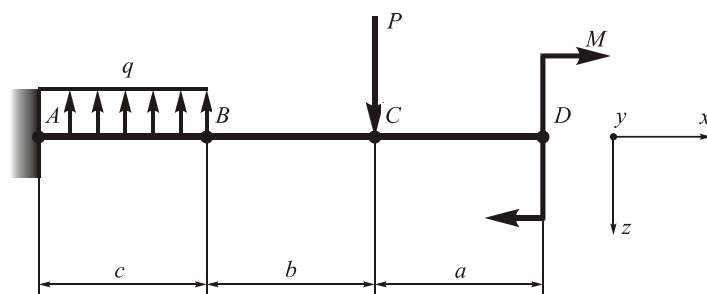
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 24**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

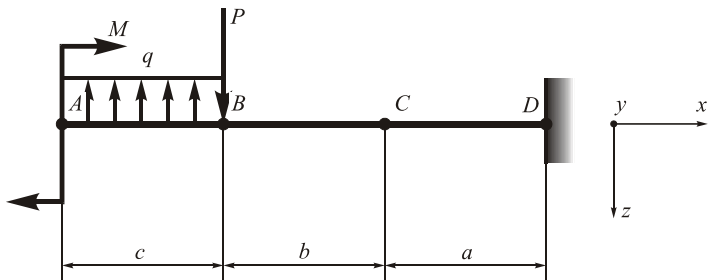
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 25**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

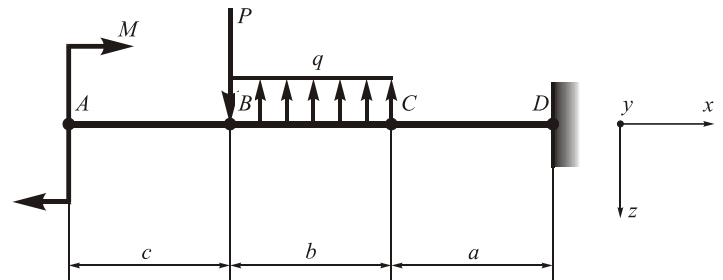
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 26**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

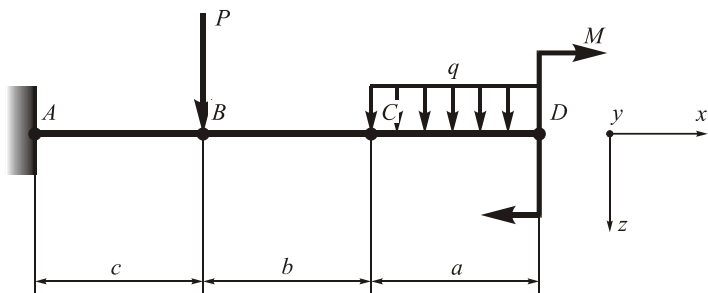
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 27**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

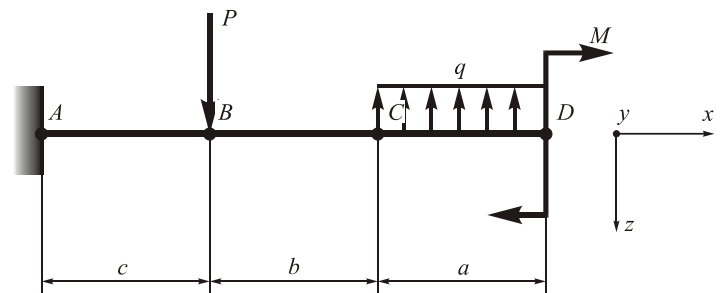
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 28**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

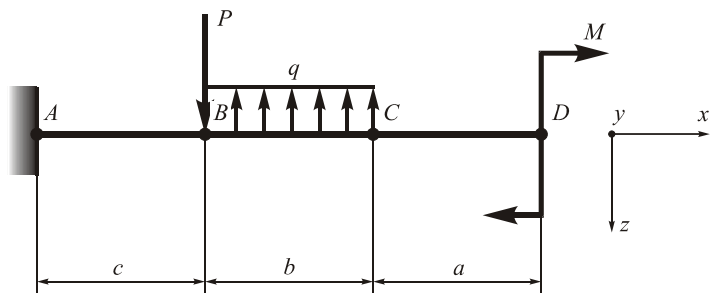
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 29**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

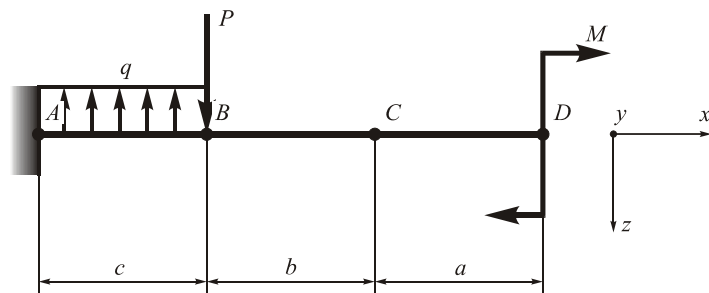
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 30**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

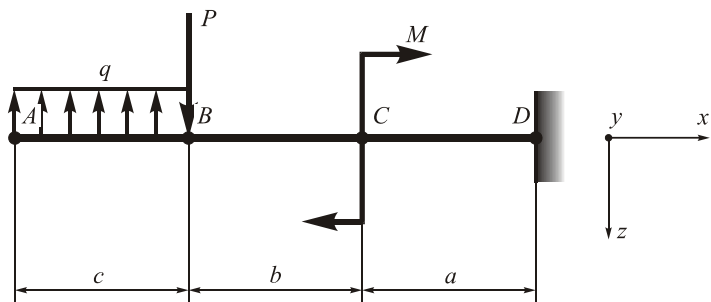
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 31**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

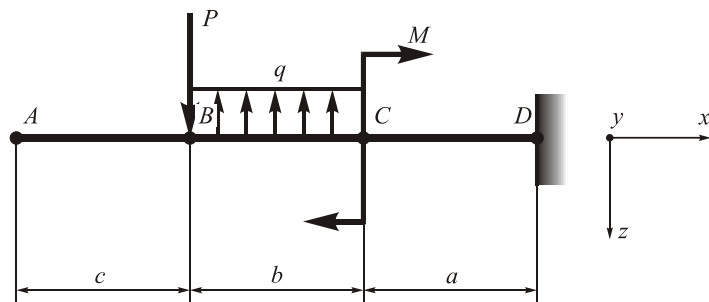
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 32**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

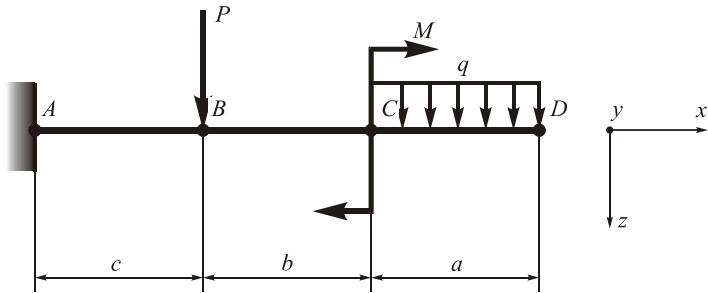
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**Mark:**



**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 33** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

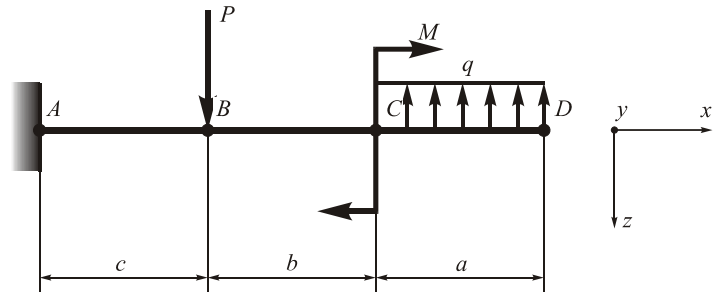
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 34** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

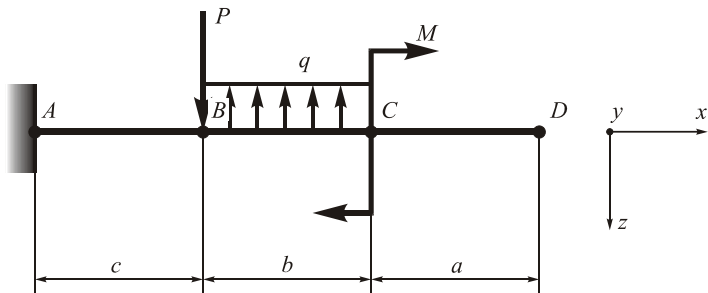
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 35** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

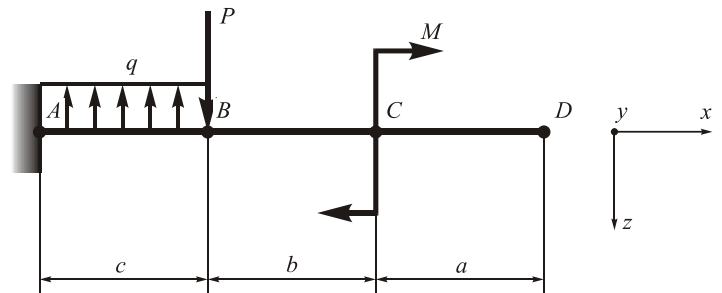
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 36** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials

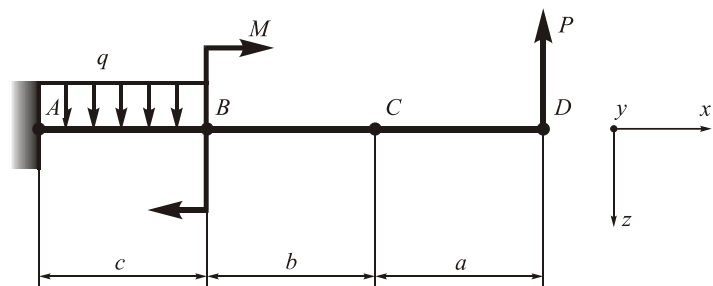
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 37**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

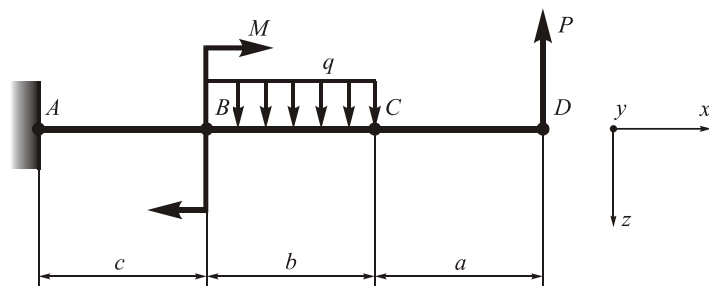
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 38**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

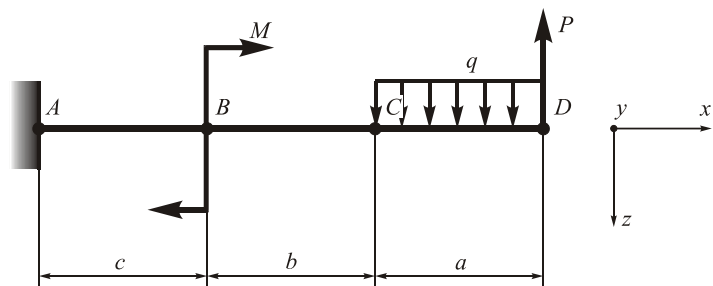
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 39**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

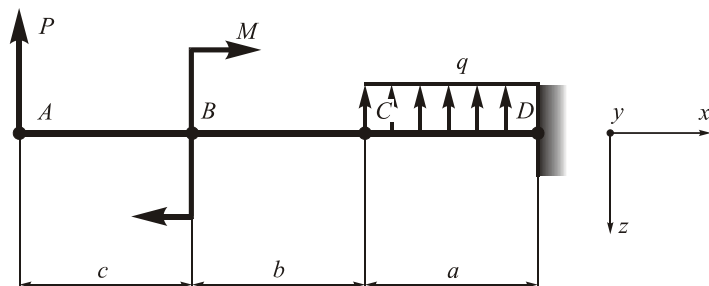
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 40**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

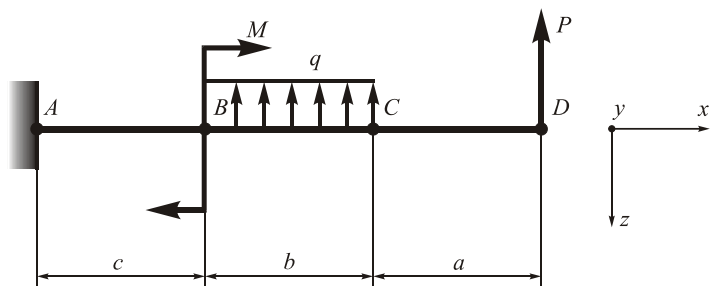
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 41**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

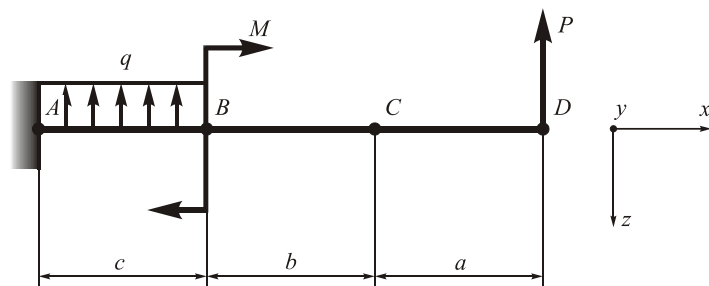
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 42**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

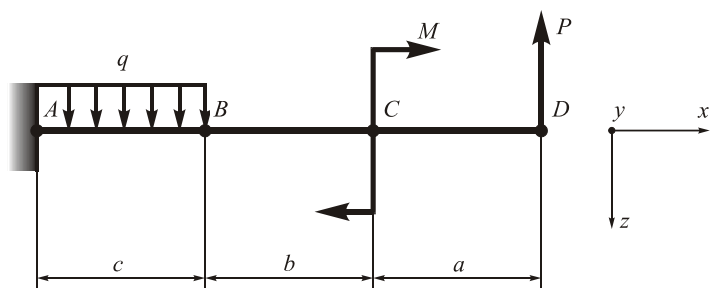
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 43**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

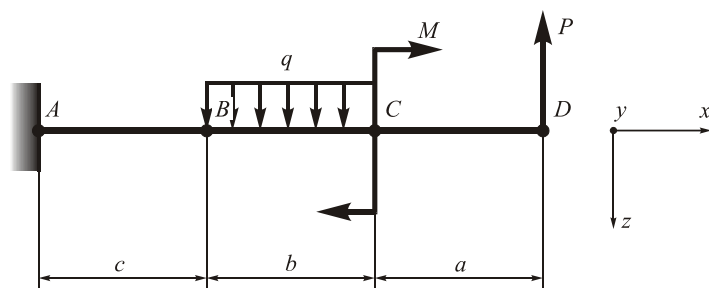
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 44**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

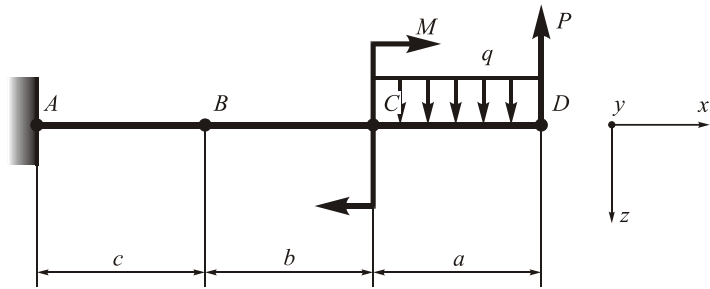
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 45**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

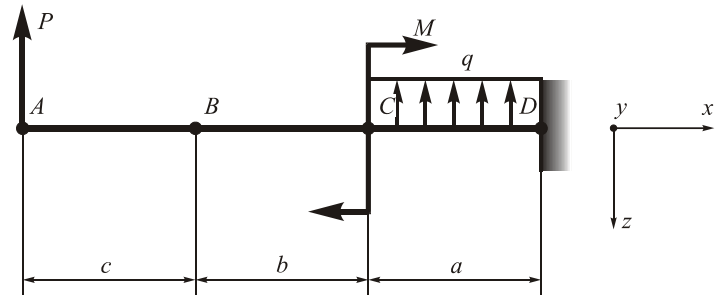
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 46**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

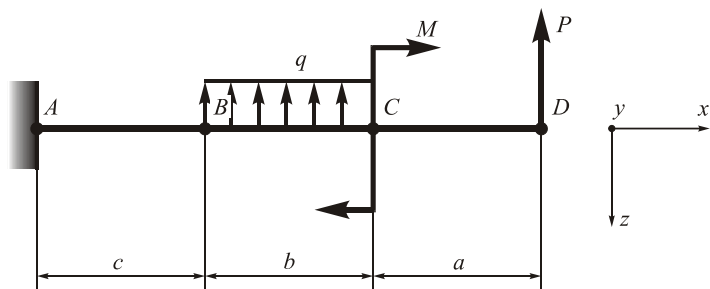
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 47**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

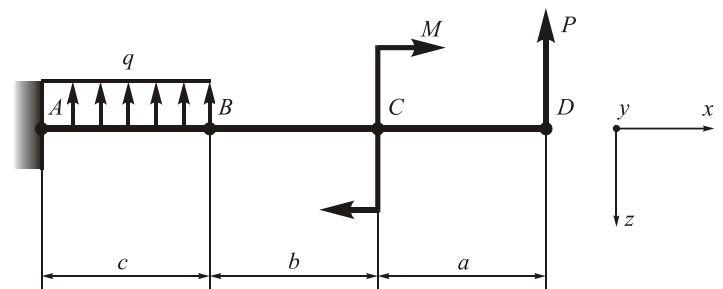
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 48**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

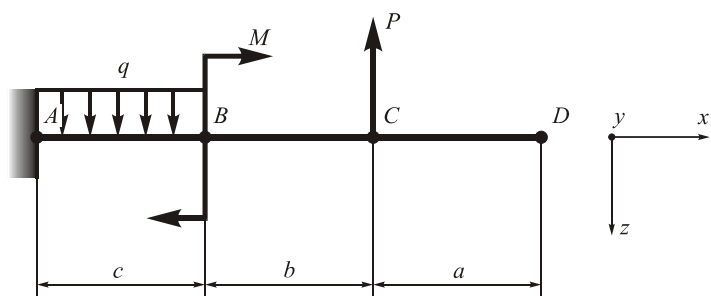
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 49**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

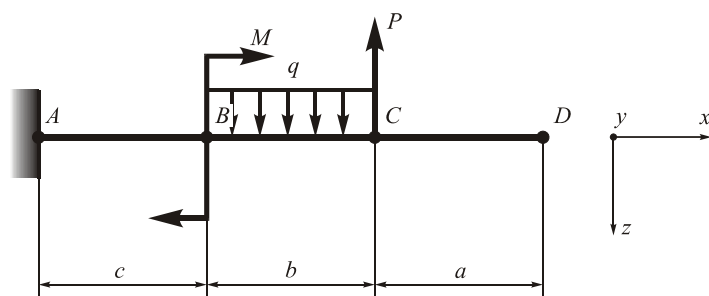
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 50**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

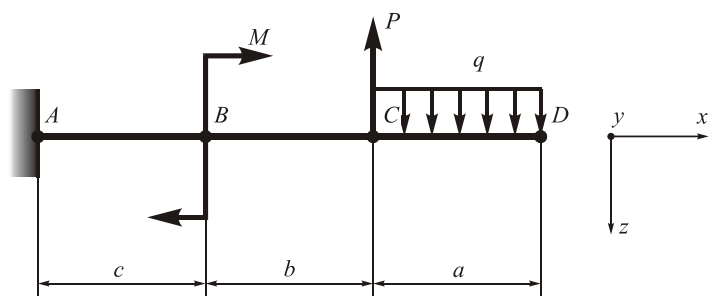
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 51**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

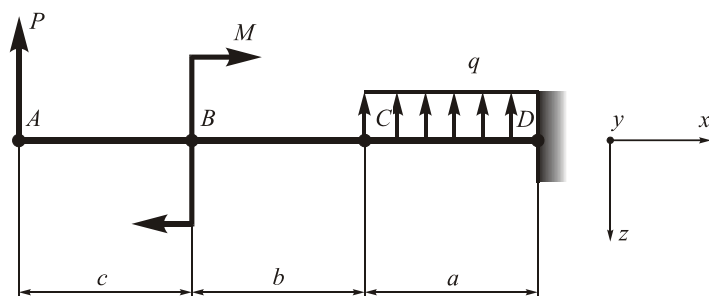
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 52**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

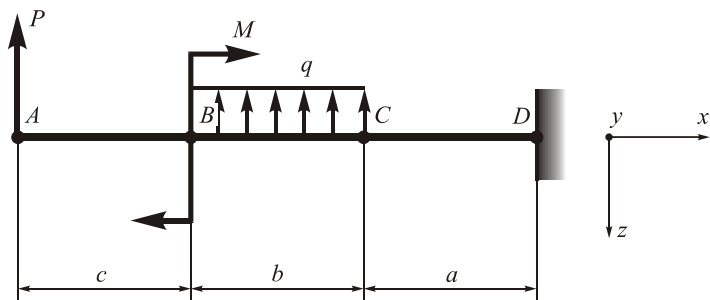
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 53**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

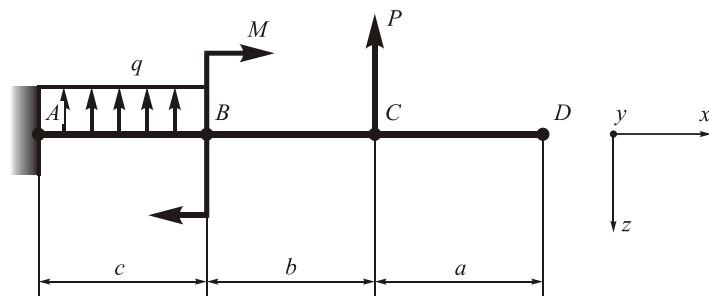
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 54**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

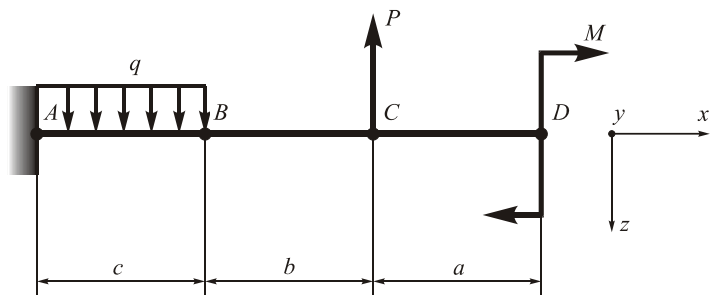
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 55**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

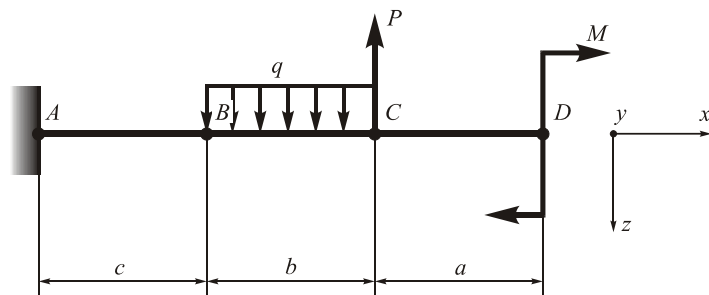
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 56**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

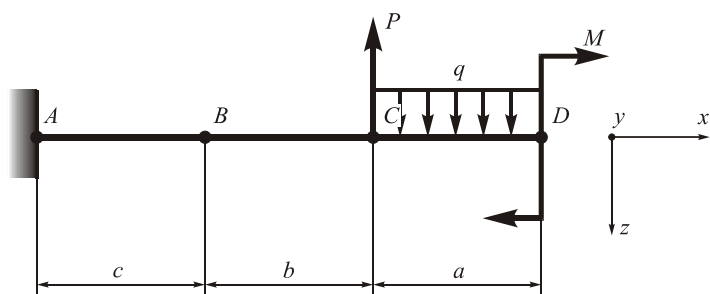
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 57**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

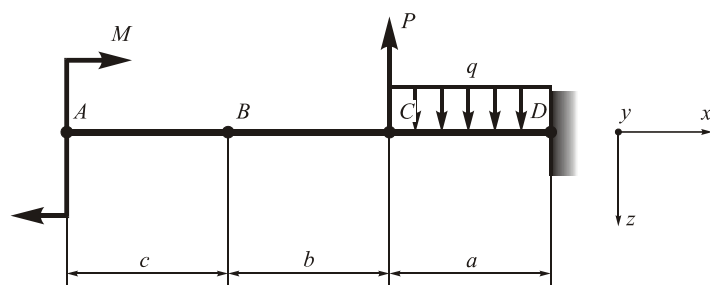
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 58**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

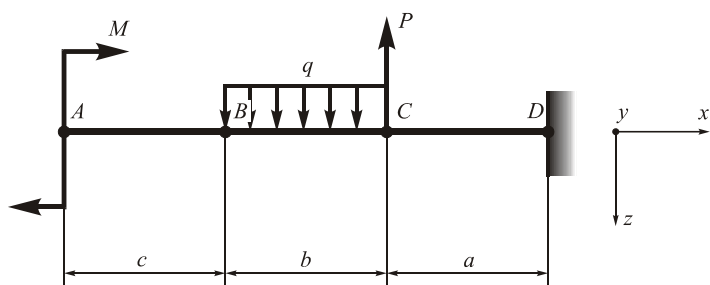
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 59**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

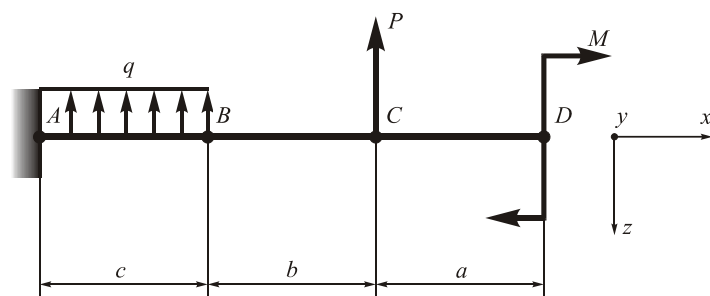
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 60**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

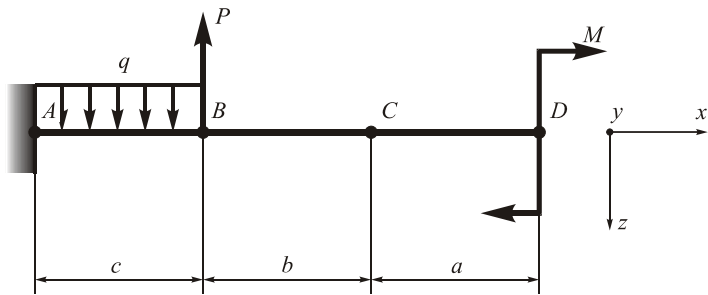
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 61**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

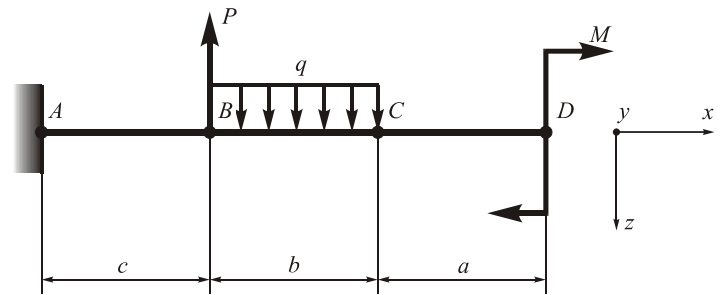
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 62**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

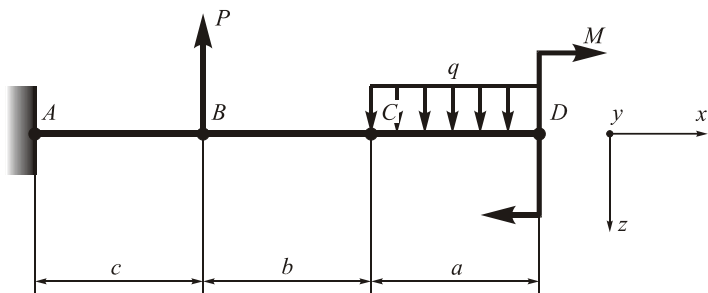
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 63**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

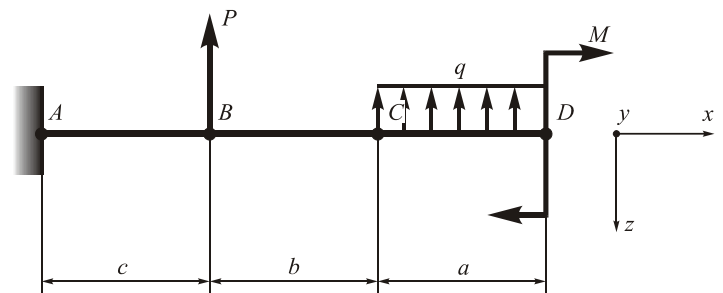
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 64**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

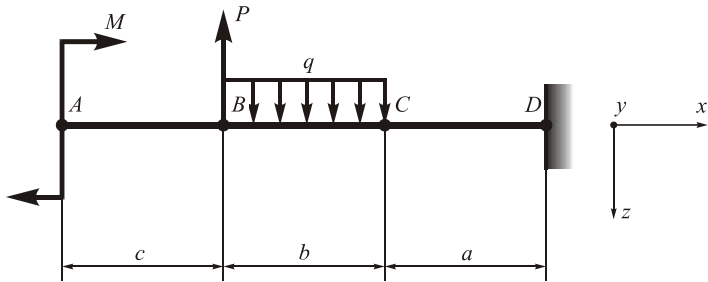
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**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 65** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

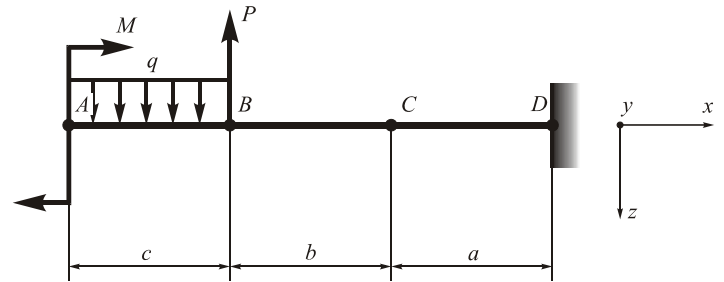
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer** **signature**

**Mark:**

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 66** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

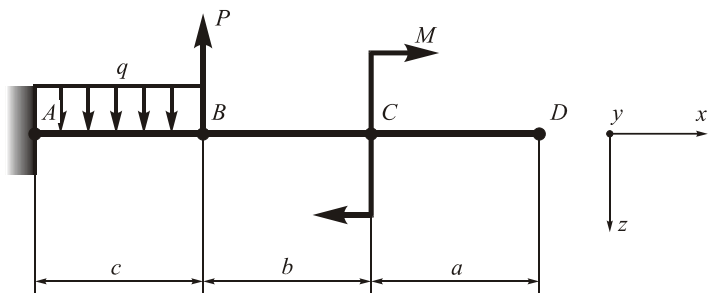
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer** **signature**

**Mark:**

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 67** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

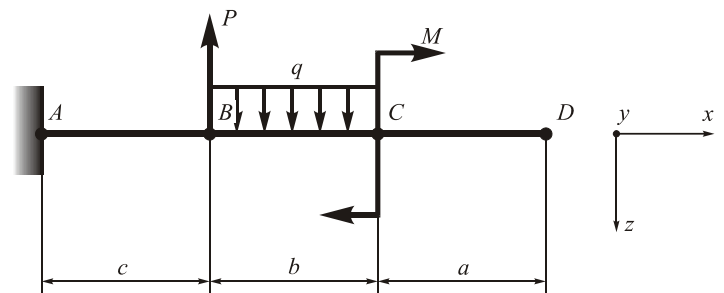
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer** **signature**

**Mark:**

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 68** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer** **signature**

**Mark:**

**Subject:** mechanics of materials

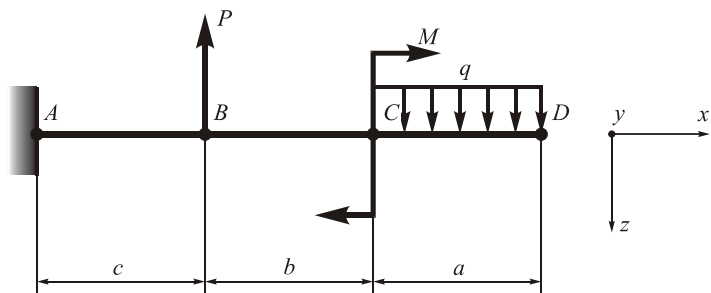
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 69**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

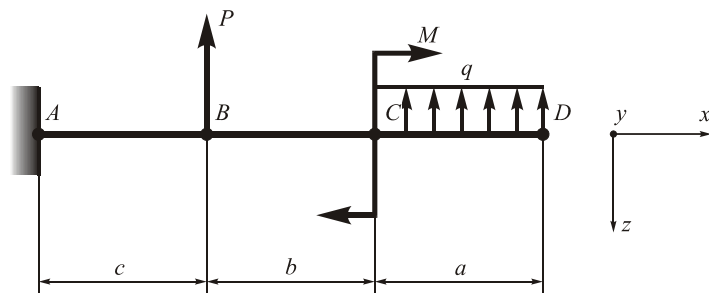
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 70**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

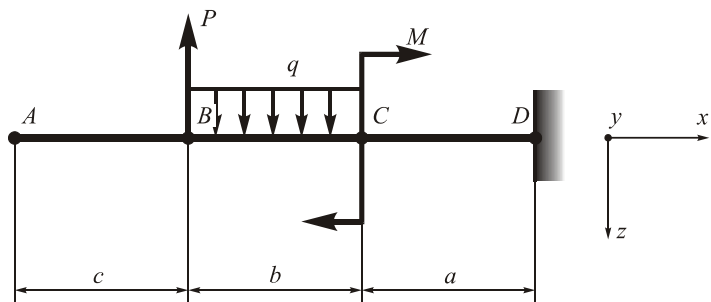
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 71**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

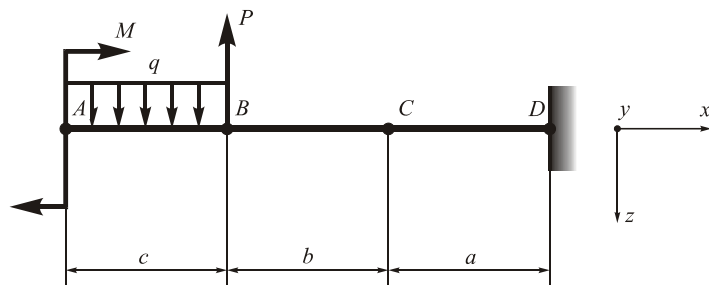
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 72**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

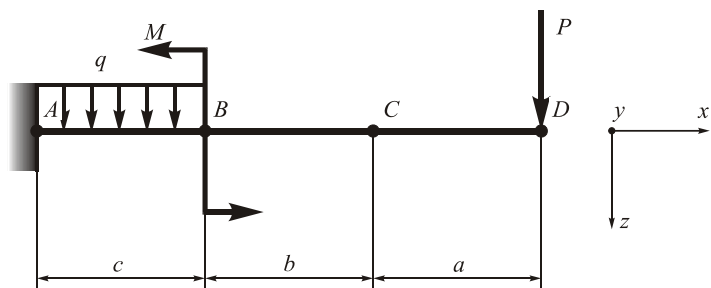
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 73**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

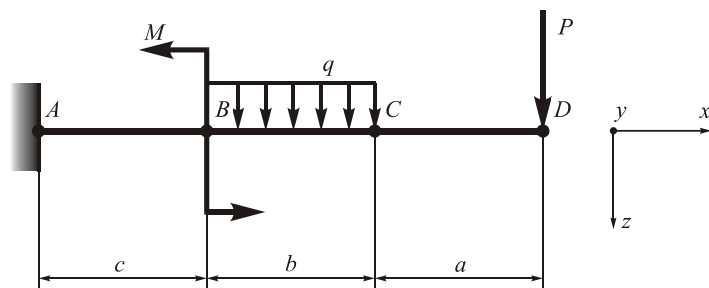
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 74**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

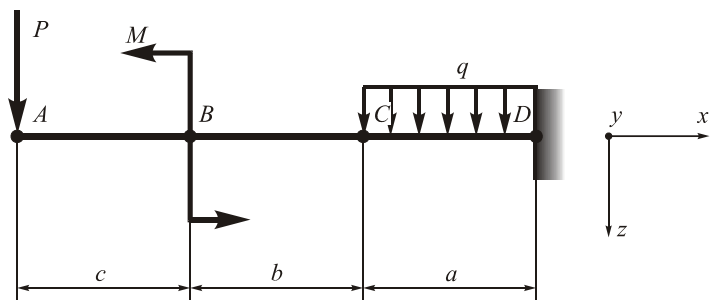
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 75**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

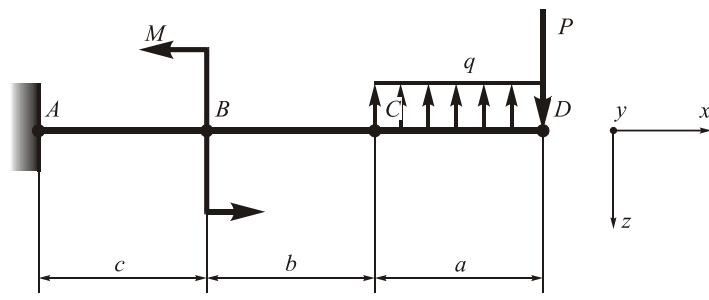
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 76**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

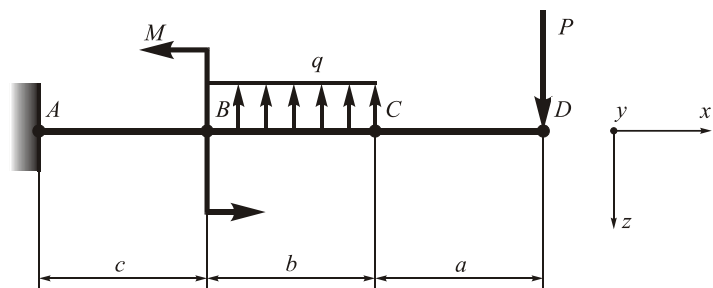
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 77**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

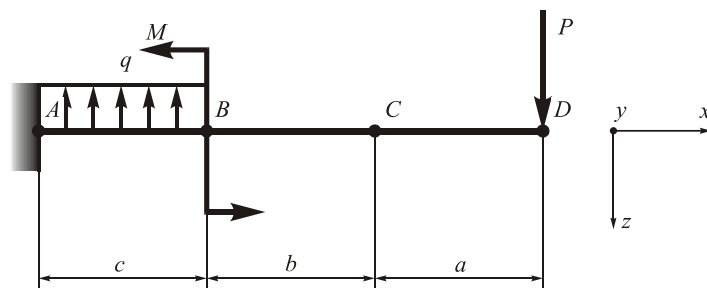
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 78**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

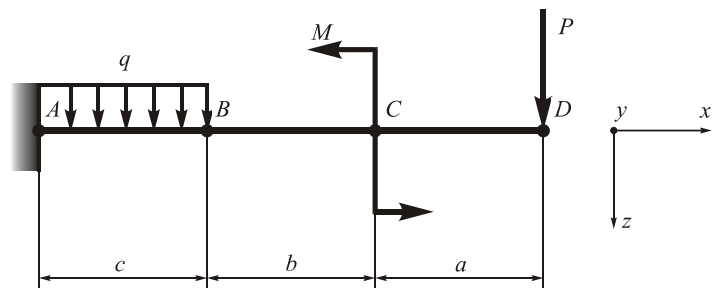
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 79**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

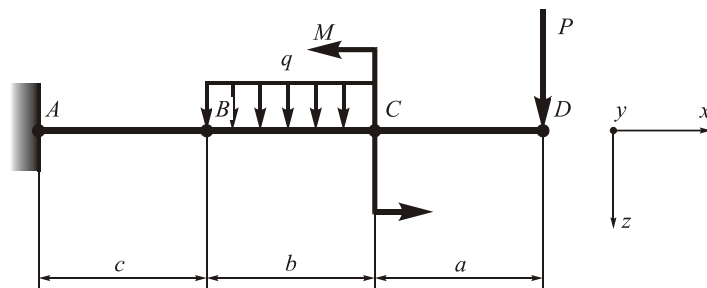
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 80**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

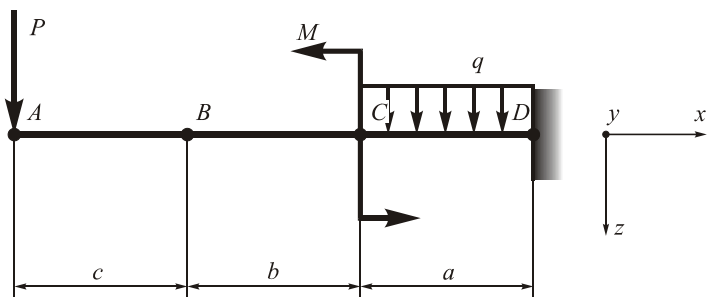
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 81**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

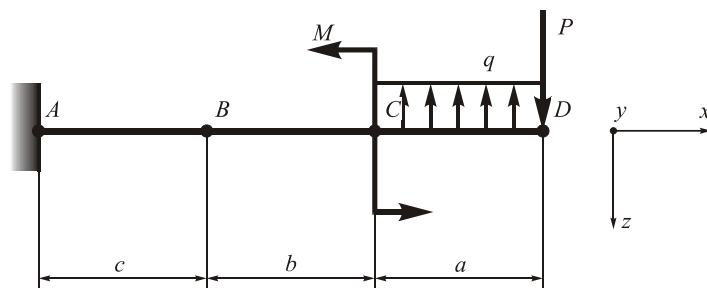
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 82**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

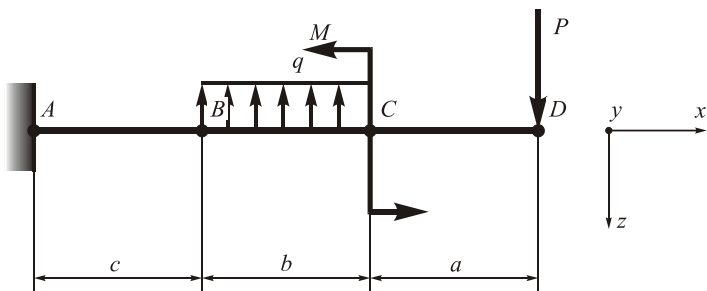
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 83**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

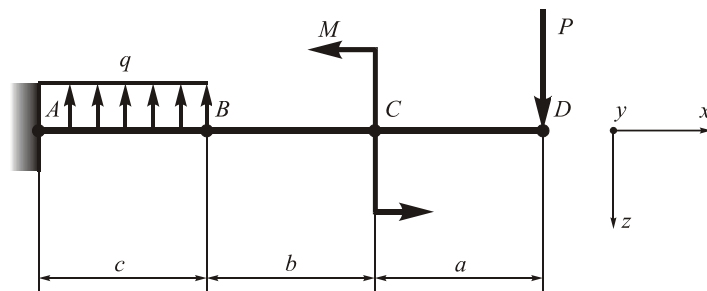
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 84**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

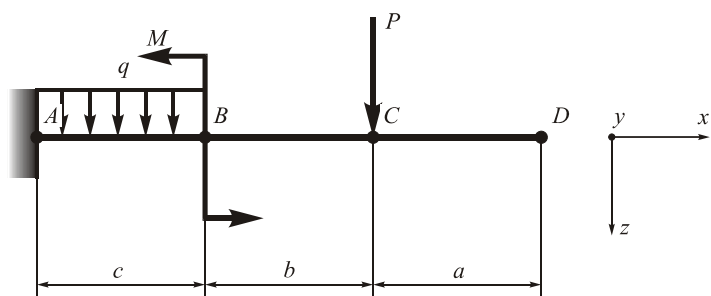
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 85**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

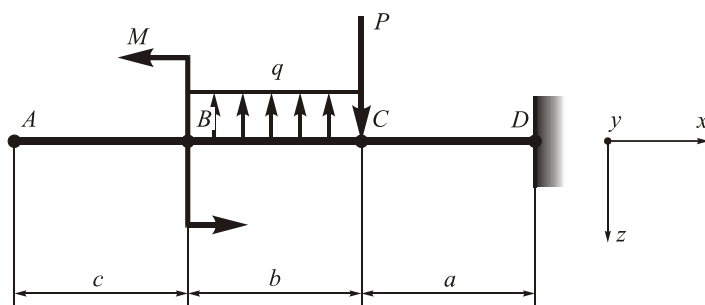
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 86**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

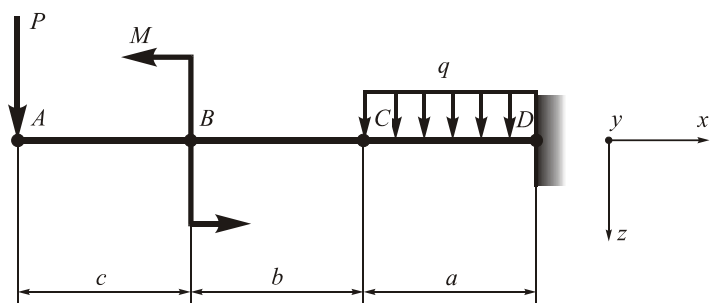
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 87**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

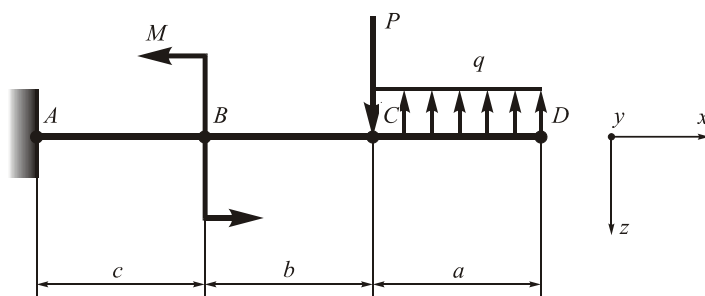
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 88**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

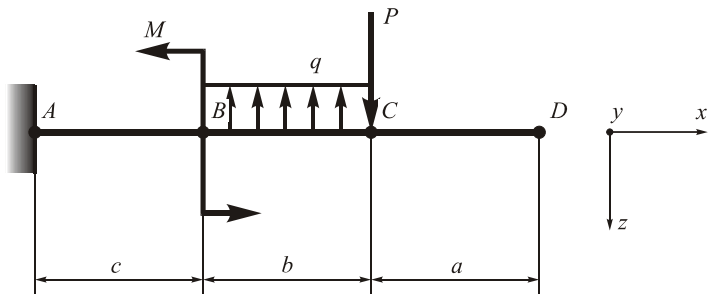
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 89**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

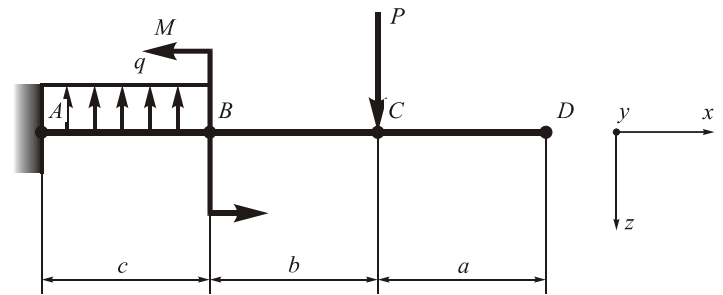
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 90**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

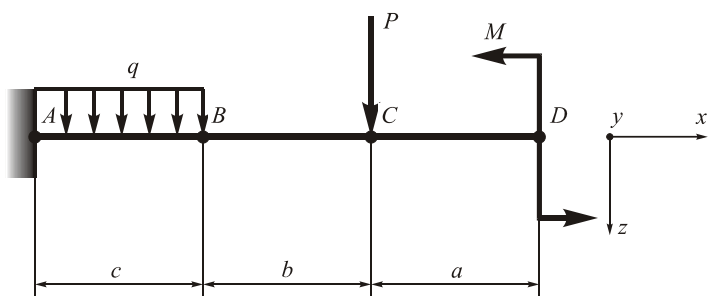
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 91**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

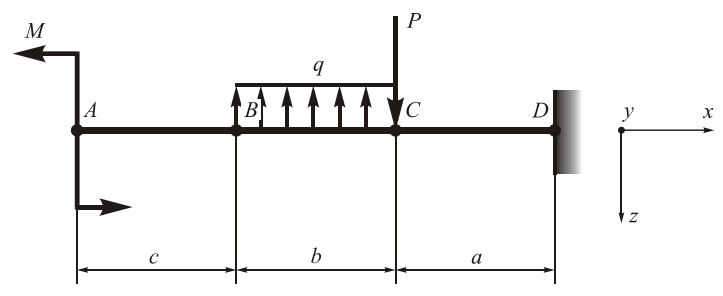
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 92**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

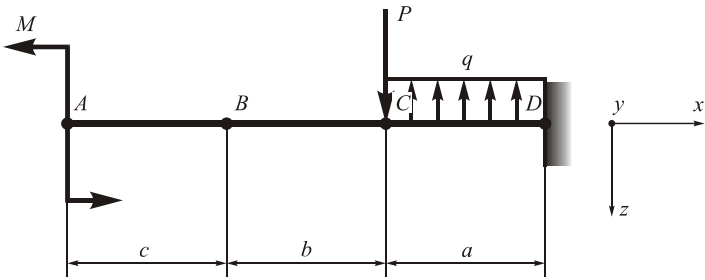
**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 93** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

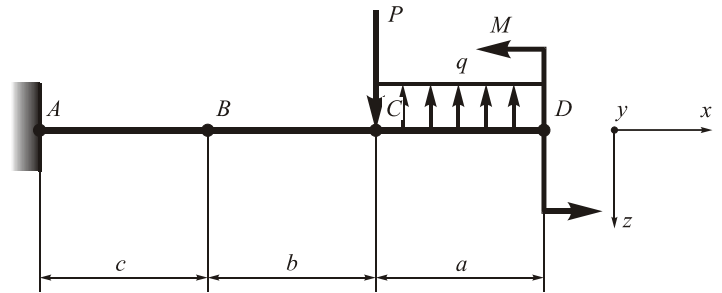
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 94** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

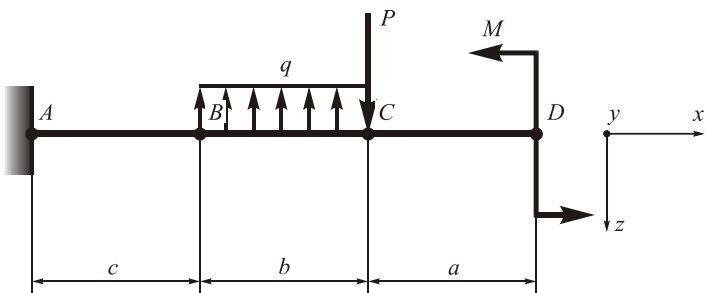
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 95** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

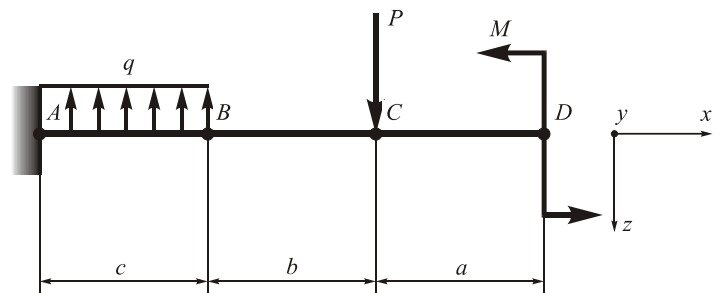
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 96** **Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:



**Subject:** mechanics of materials

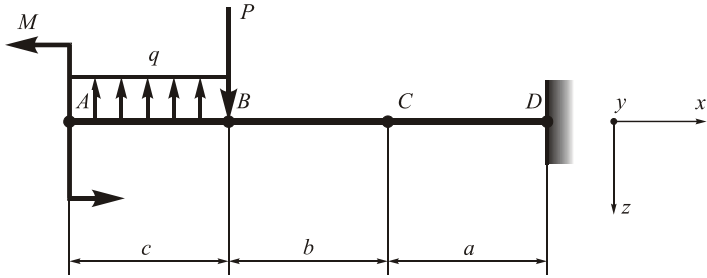
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 97**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

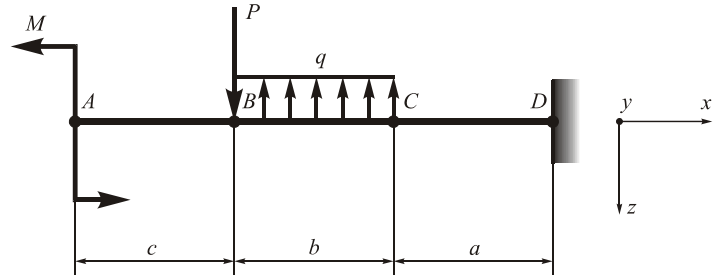
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 98**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

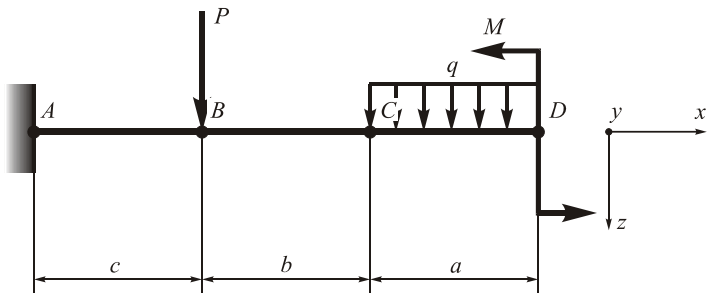
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 99**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

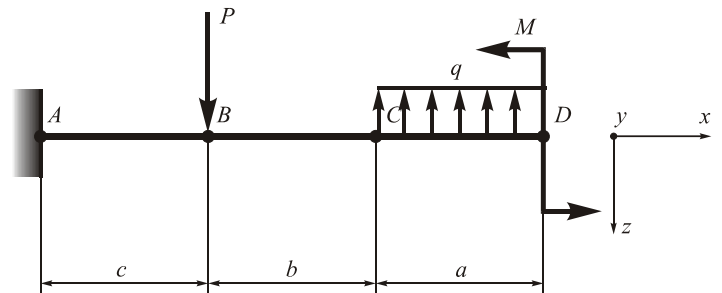
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 100**

**Complexity: 1**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

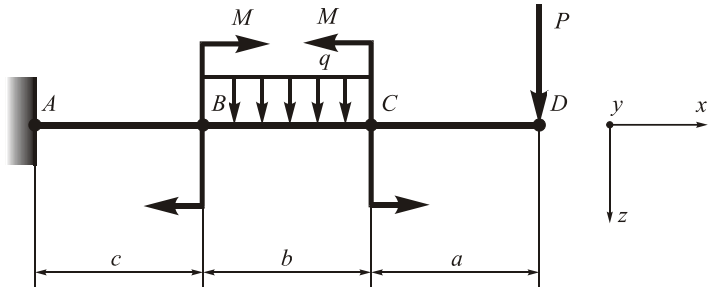
**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

Variant: 101 Complexity: 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

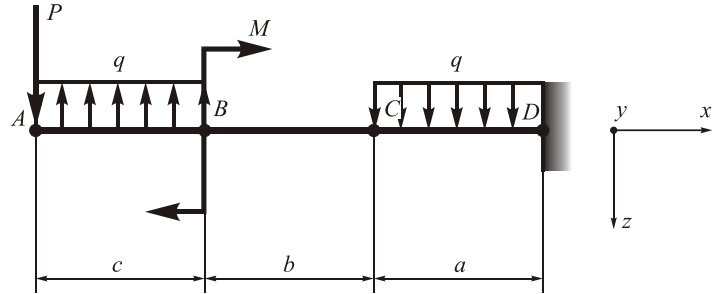
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

Variant: 102 Complexity: 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

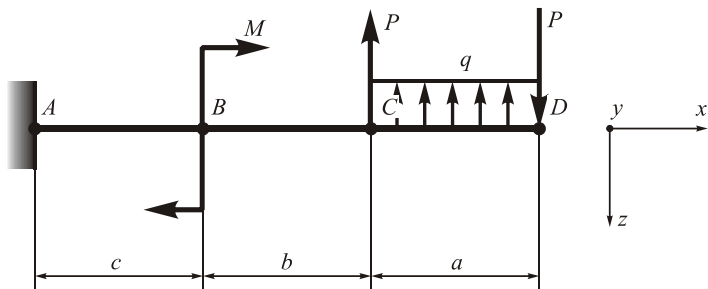
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

Variant: 103 Complexity: 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

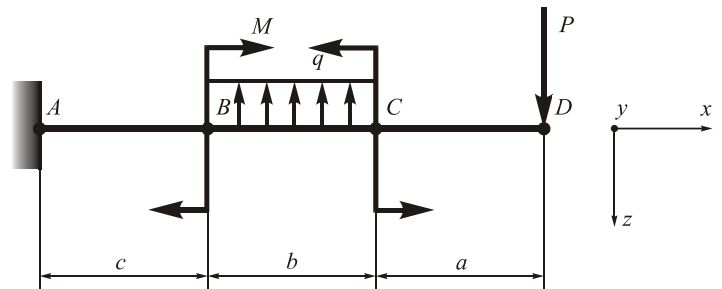
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

Variant: 104 Complexity: 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials

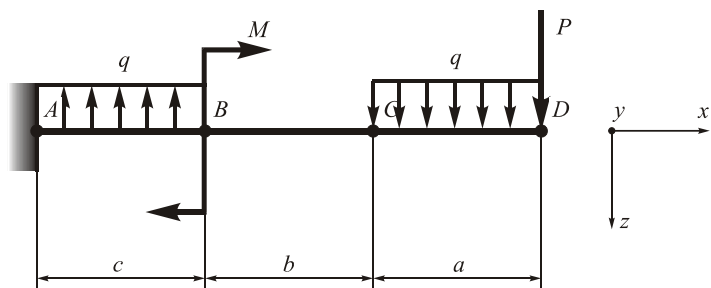
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 105

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

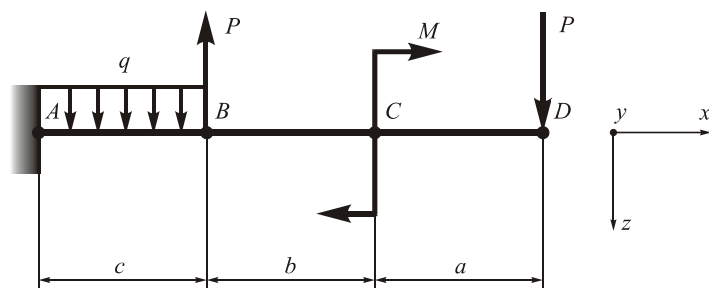
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 106

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

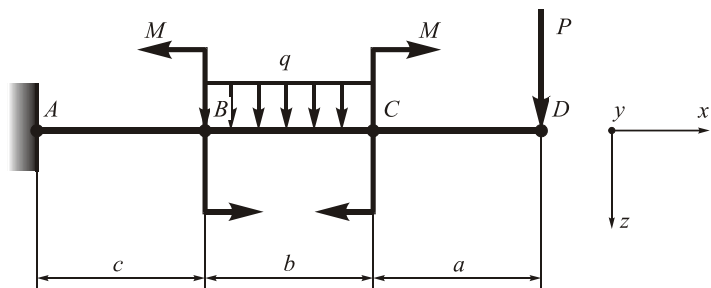
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 107

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

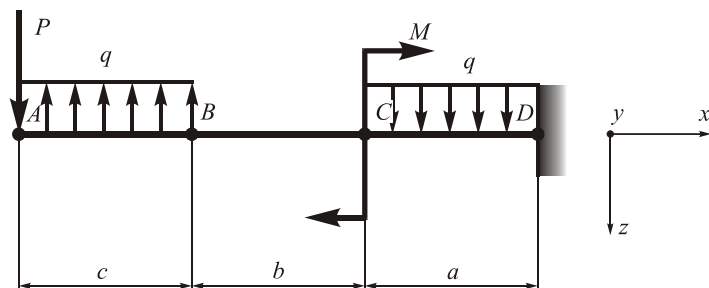
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 108

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

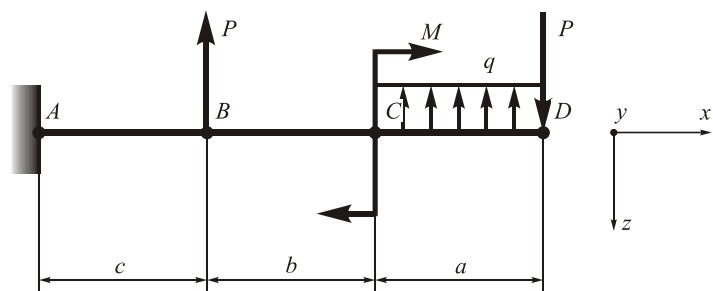
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 109**

**Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

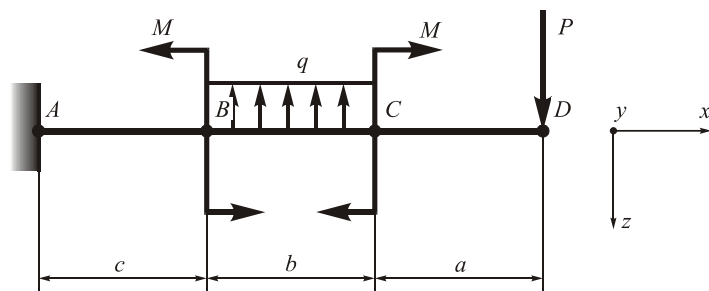
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 110**

**Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

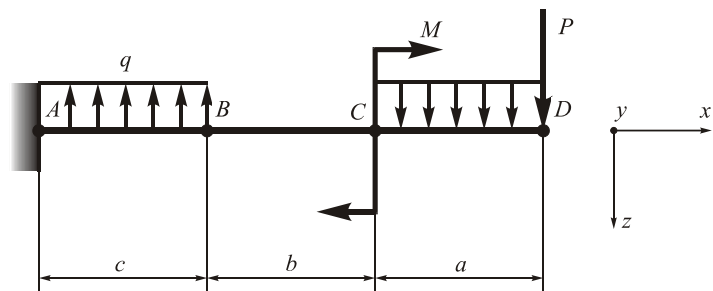
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 111**

**Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

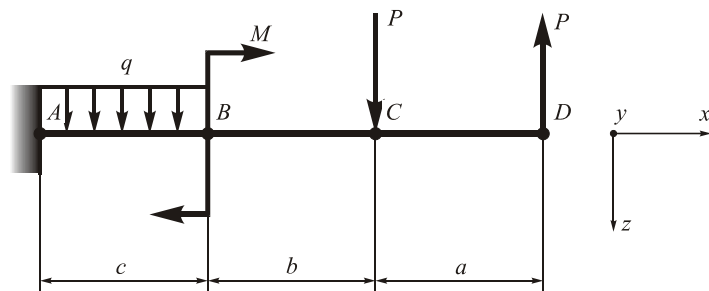
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 112**

**Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

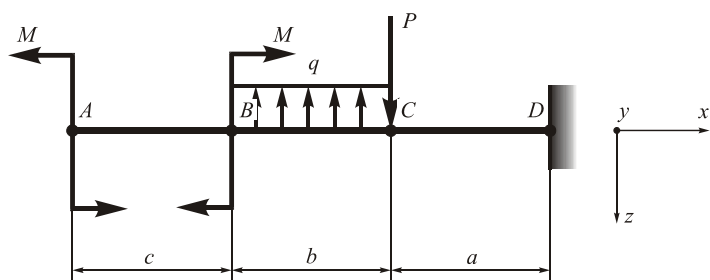
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 113

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

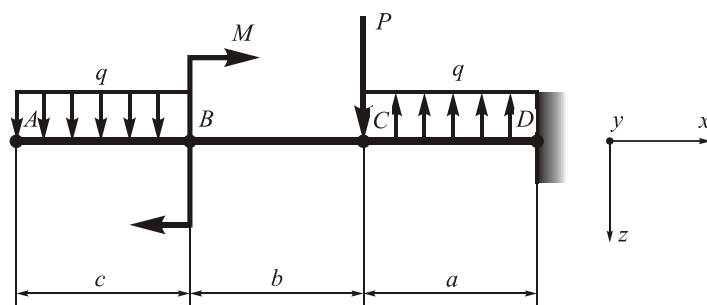
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 114

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

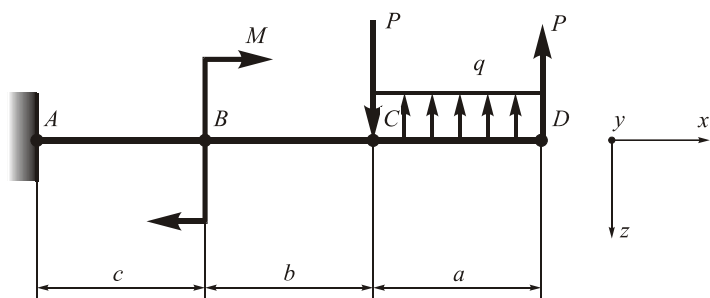
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 115

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

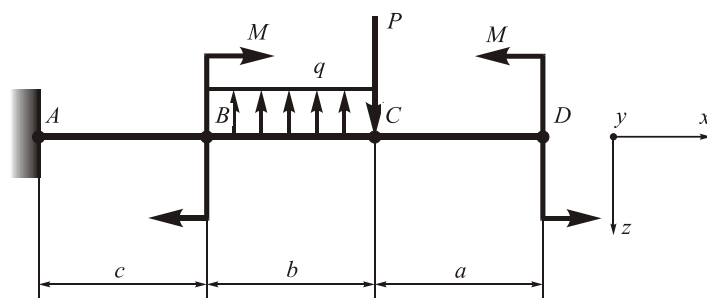
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 116

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

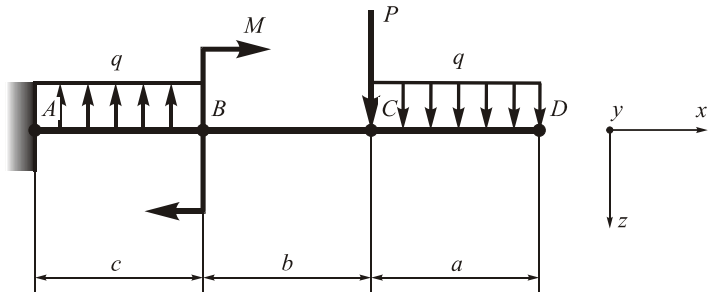
**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 117** **Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

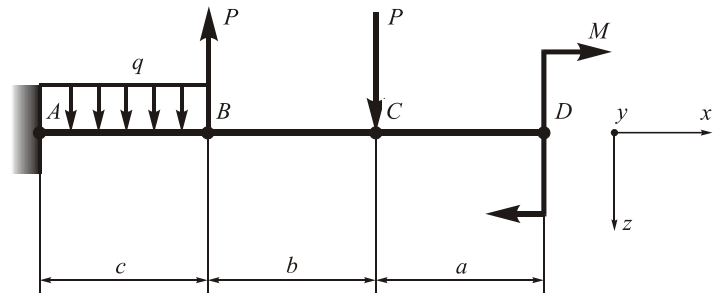
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 118** **Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

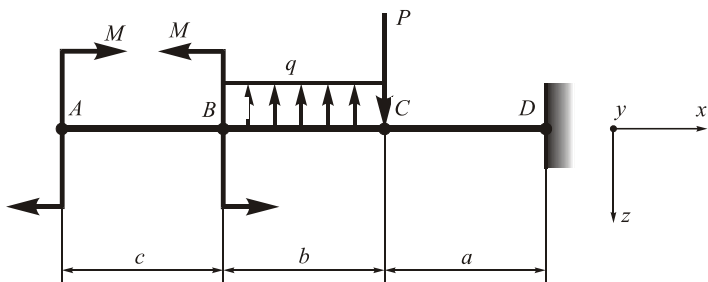
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 119** **Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

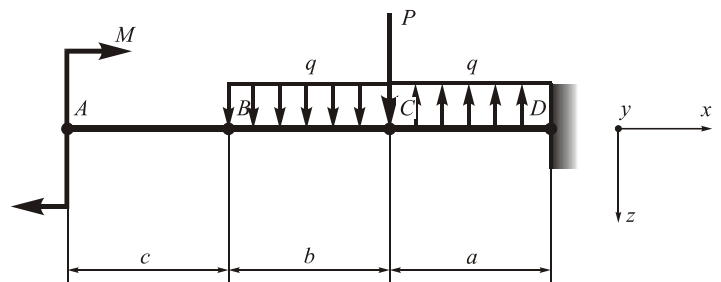
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 120** **Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

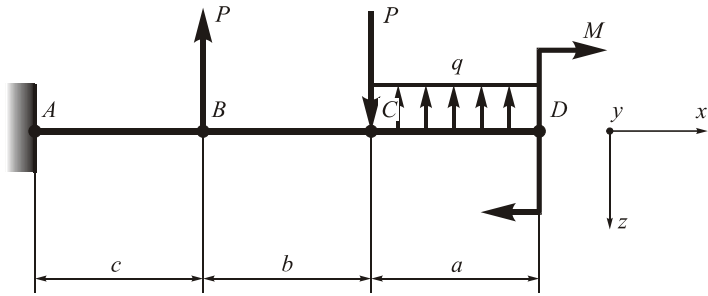
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 121** **Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

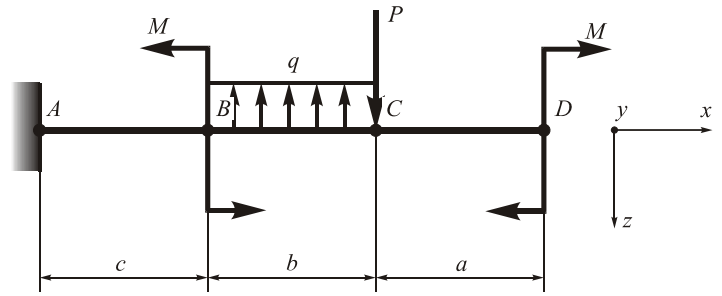
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 122** **Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

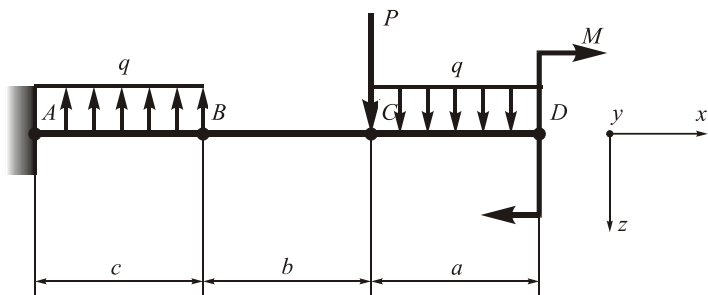
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 123** **Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

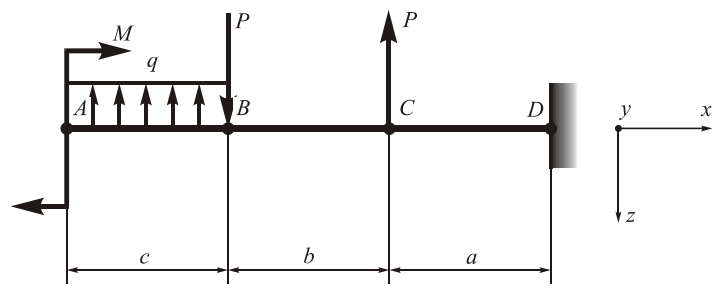
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 124** **Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials

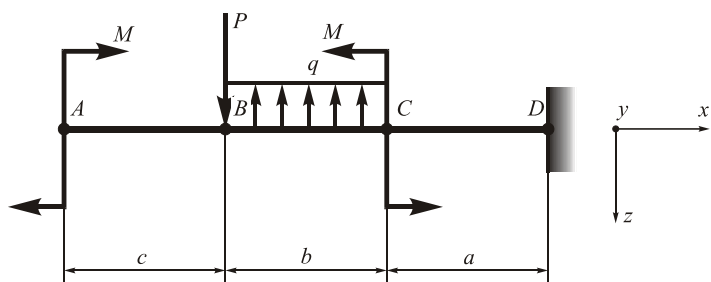
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 125

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

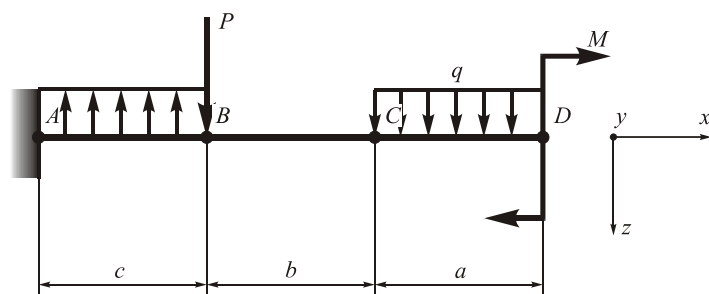
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 126

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

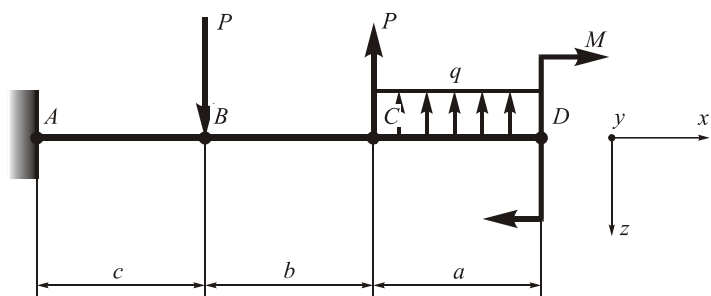
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 127

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

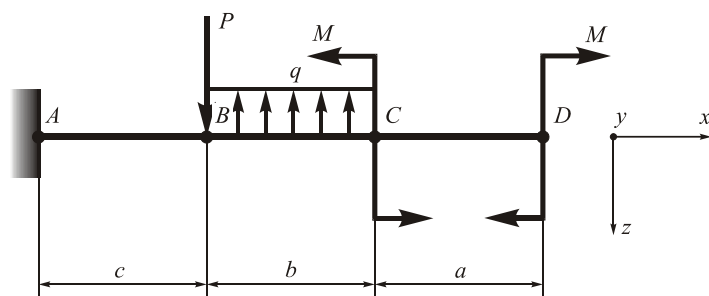
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 128

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

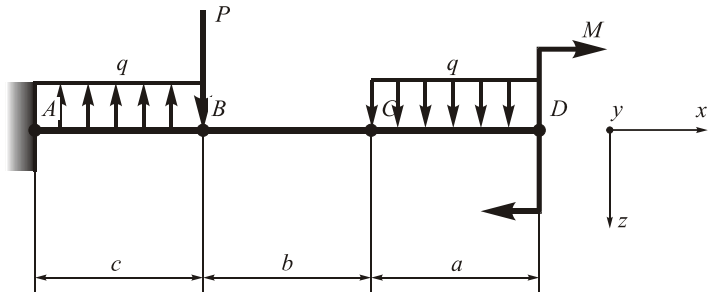
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**Mark:**



**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 129** **Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

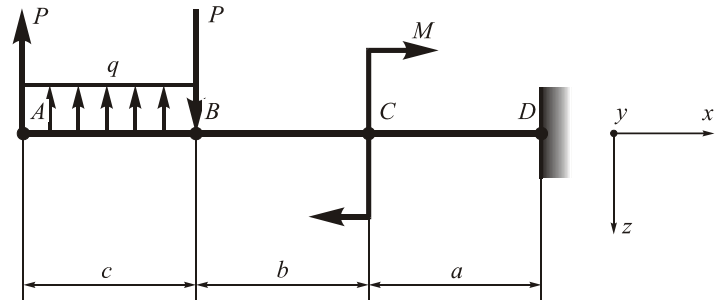
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 130** **Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

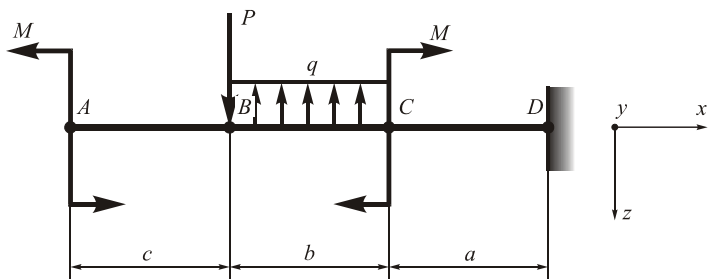
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 131** **Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

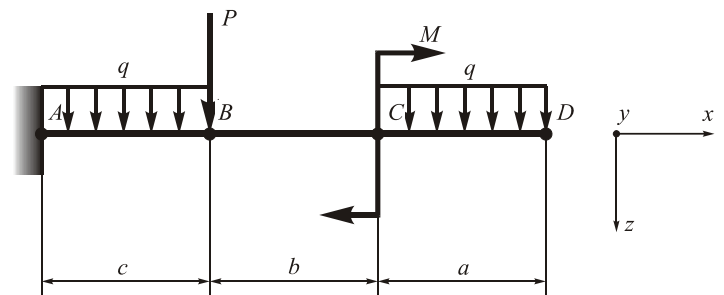
**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials  
**Document:** home problem  
**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.  
**Full name of the student, group**

**Variant: 132** **Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

Full name of the lecturer signature

Mark:

**Subject:** mechanics of materials

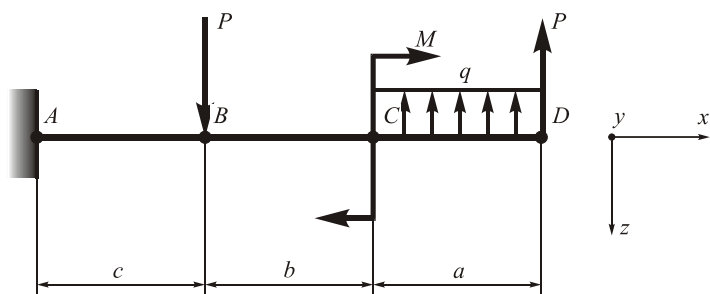
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 133**

**Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

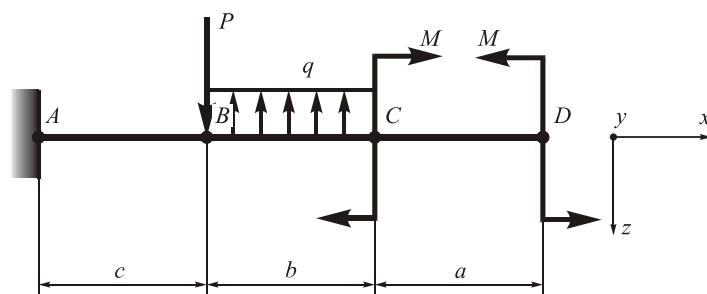
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 134**

**Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

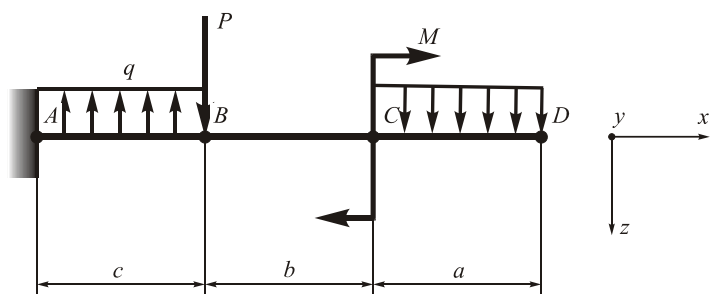
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 135**

**Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

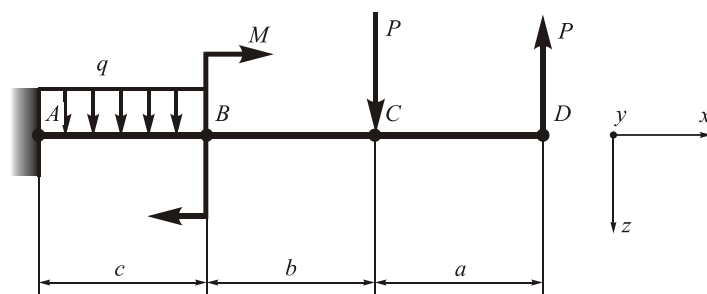
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 136**

**Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

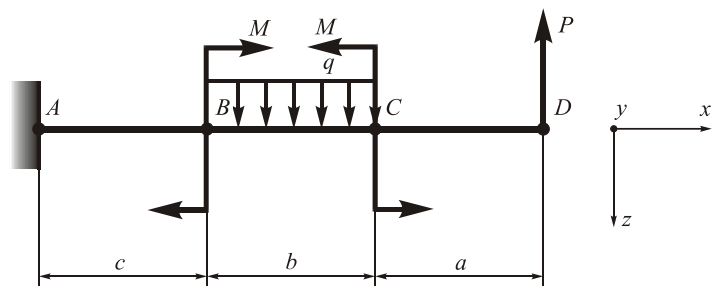
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 137

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

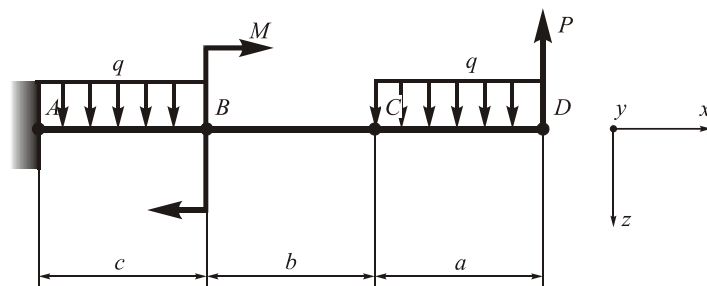
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 138

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

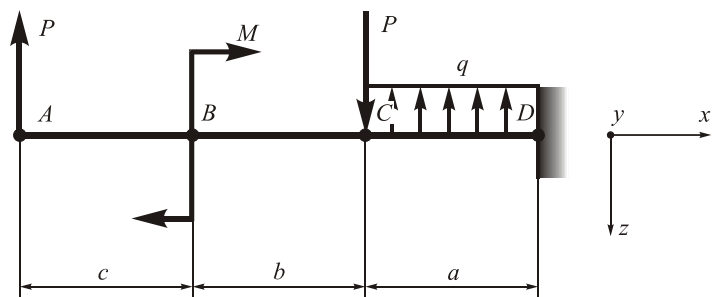
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 139

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

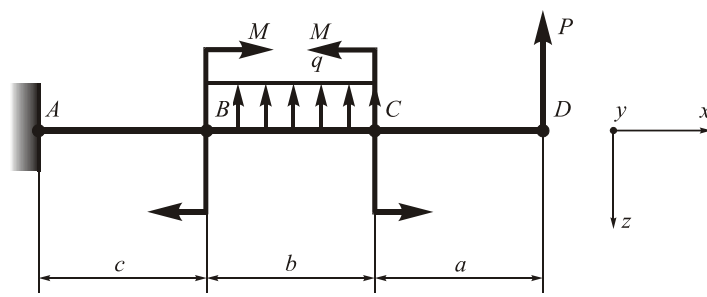
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 140

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

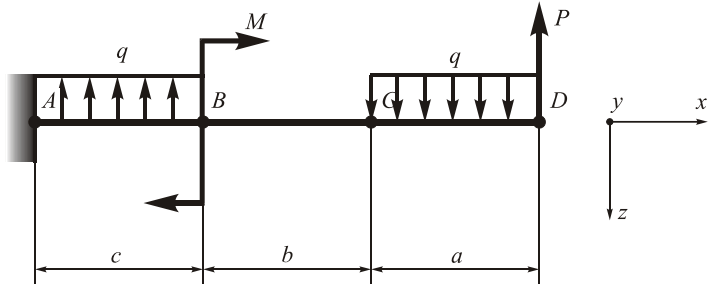
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 141**

**Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

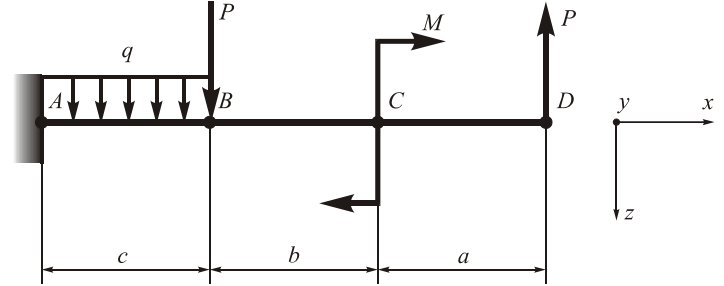
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 142**

**Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

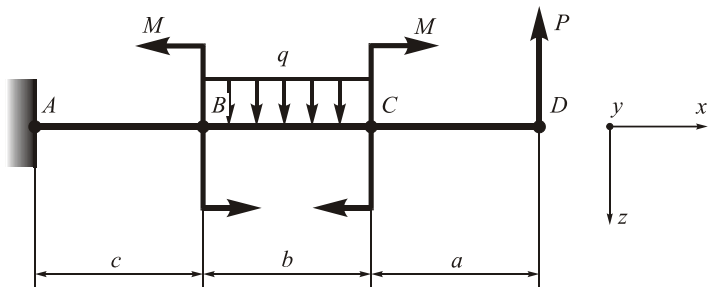
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 143**

**Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

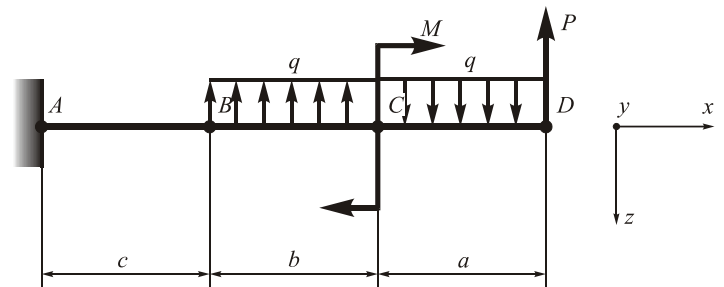
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 144**

**Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

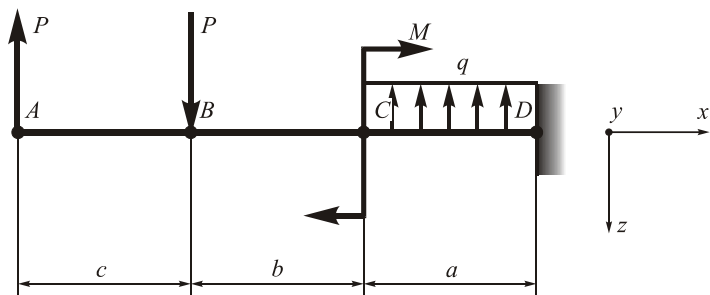
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**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 145

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

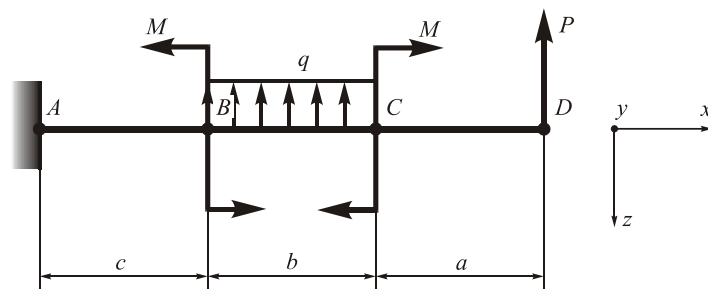
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 146

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

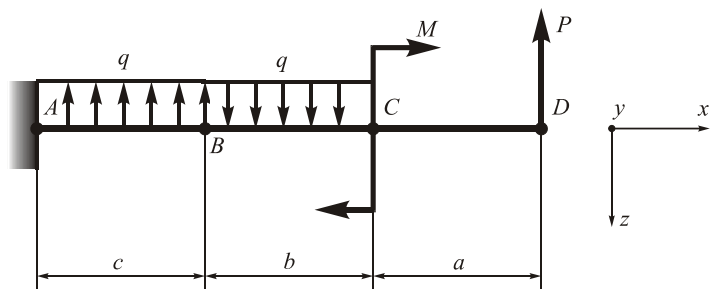
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 147

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 4 \text{ m}$ ,  $b = 1 \text{ m}$ ,  $c = 2 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

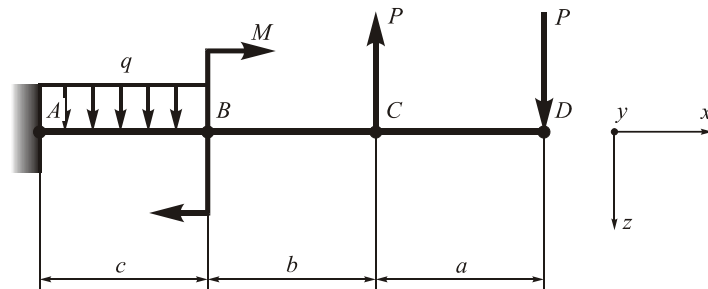
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant:** 148

**Complexity:** 2



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 1 \text{ m}$ ,  $b = 2 \text{ m}$ ,  $c = 3 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

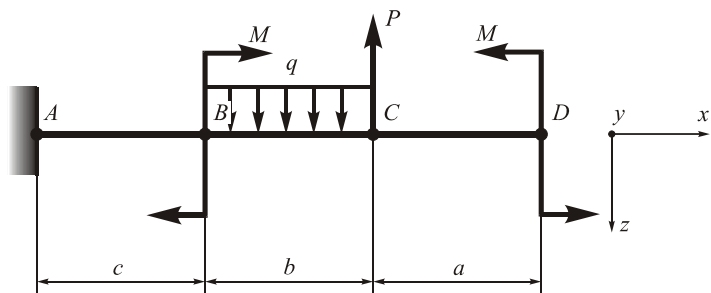
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 149**

**Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 2 \text{ m}$ ,  $b = 3 \text{ m}$ ,  $c = 4 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**

**Subject:** mechanics of materials

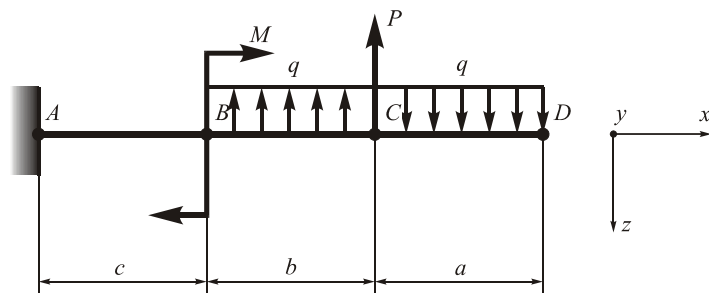
**Document:** home problem

**Topic:** graphs of shear force and bending moment distribution along the length of a beam in plane bending deformation.

**Full name of the student, group**

**Variant: 150**

**Complexity: 2**



**Given:**  $q = 10 \text{ kN/m}$ ,  $M = 20 \text{ kNm}$ ,  $P = 30 \text{ kN}$ ,  $a = 3 \text{ m}$ ,  $b = 4 \text{ m}$ ,  $c = 1 \text{ m}$ .

**Goal:** obtain the equations of shear force and bending moment in the cross-sections of a beam and design the graphs of their distribution along the beam length.

**Full name of the lecturer**

**signature**

**Mark:**