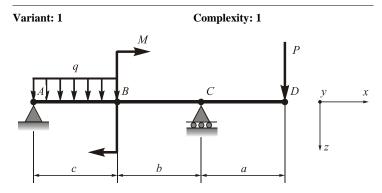
Subject: mechanics of materials

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



Given: q = 10 kN/m, M = 20 kNm, P = 30 kN, a = 2 m, b = 3 m, c = 4 m.

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

Full name of the lecturer

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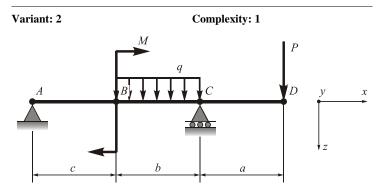
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National aerospace university "Kharkiv Aviation Institute" **Department of aircraft strength**

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.

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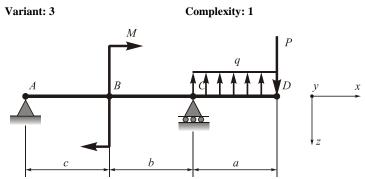
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National aerospace university "Kharkiv Aviation Institute" Department of aircraft strength

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



Given: q = 10 kN/m, M = 20 kNm, P = 30 kN, a = 2 m, b = 3 m, c = 4 m.

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

Full name of the lecturer

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National aerospace university "Kharkiv Aviation Institute" Department of aircraft strength

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** М h a

Given: q = 10 kN/m, M = 20 kNm, P = 30 kN, a = 2 m, b = 3 m, c = 4 m.

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

Full name of the lecturer

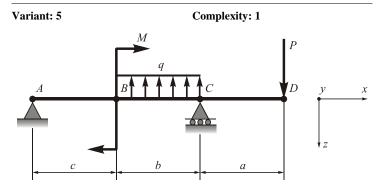
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Subject: mechanics of materials

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



Given: q = 10 kN/m, M = 20 kNm, P = 30 kN, a = 2 m, b = 3 m, c = 4 m.

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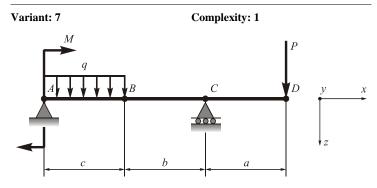
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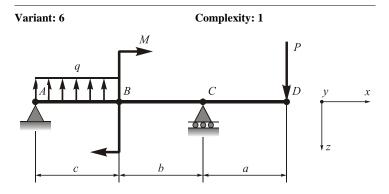
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National aerospace university "Kharkiv Aviation Institute" **Department of aircraft strength**

Subject: mechanics of materials

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National aerospace university "Kharkiv Aviation Institute" Department of aircraft strength

Subject: mechanics of materials

Document: home problem

of a beam in plane bending deformation.

Variant: 8 **Complexity: 1**

Given: q = 10 kN/m, M = 20 kNm, P = 30 kN, a = 2 m, b = 3 m, c = 4 m.

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

Full name of the lecturer

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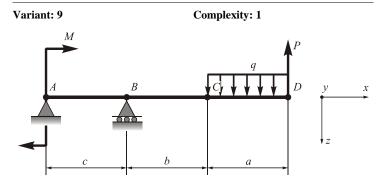
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Topic: graphs of shear force and bending moment distribution along the length Full name of the student, group

Subject: mechanics of materials

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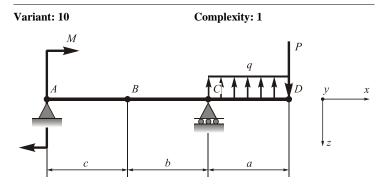
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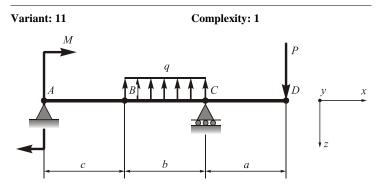
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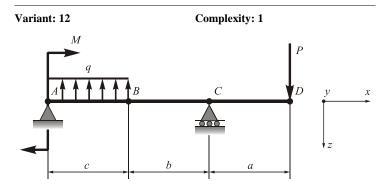
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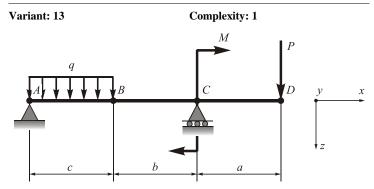
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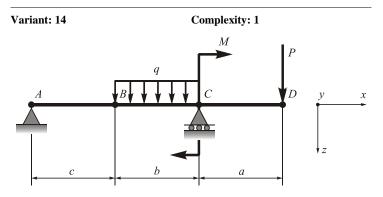
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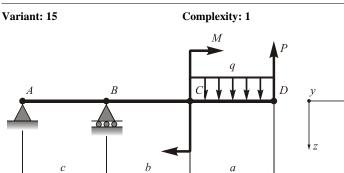
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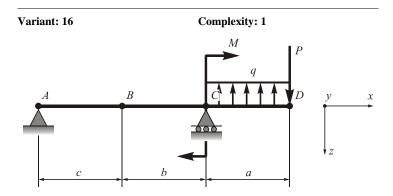
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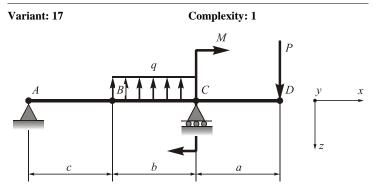
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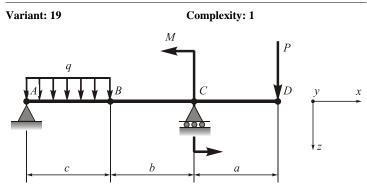
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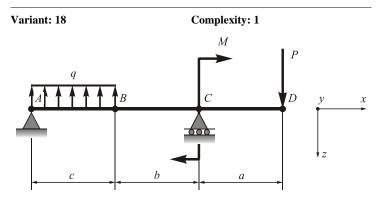
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National aerospace university "Kharkiv Aviation Institute" Department of aircraft strength

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Full name of the lecturer

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National aerospace university "Kharkiv Aviation Institute" Department of aircraft strength

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: 20 Complexity: 1 A B C D y z z

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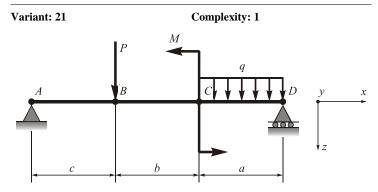
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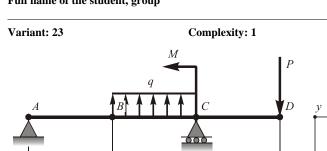
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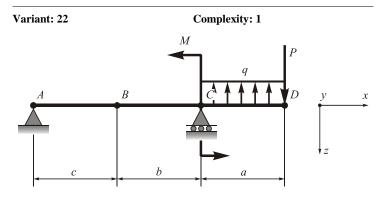
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National aerospace university "Kharkiv Aviation Institute" **Department of aircraft strength**

Subject: mechanics of materials

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Mark:

National aerospace university "Kharkiv Aviation Institute" Department of aircraft strength

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.

Variant: 24 **Complexity: 1** M a

Given: q = 10 kN/m, M = 20 kNm, P = 30 kN, a = 2 m, b = 3 m, c = 4 m.

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

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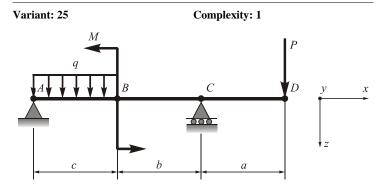
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Full name of the student, group

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



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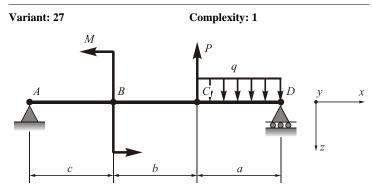
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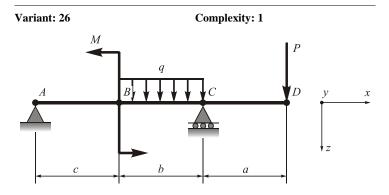
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National aerospace university "Kharkiv Aviation Institute" **Department of aircraft strength**

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Full name of the lecturer

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National aerospace university "Kharkiv Aviation Institute"

Subject: mechanics of materials

Document: home problem

of a beam in plane bending deformation.

Variant: 28 **Complexity: 1** R a

Given: q = 10 kN/m, M = 20 kNm, P = 30 kN, a = 2 m, b = 3 m, c = 4 m.

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

Full name of the lecturer

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Department of aircraft strength

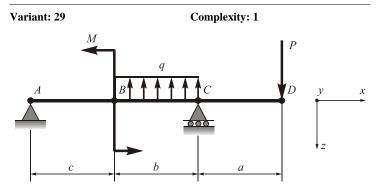
Topic: graphs of shear force and bending moment distribution along the length Full name of the student, group

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**

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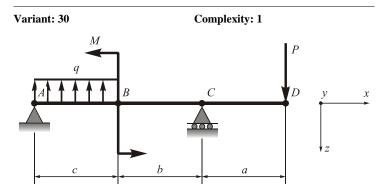
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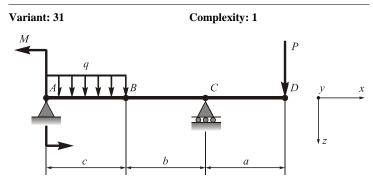
National aerospace university "Kharkiv Aviation Institute" Department of aircraft strength

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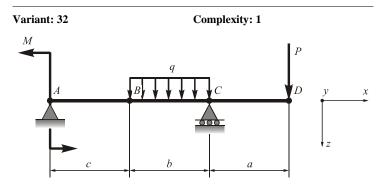
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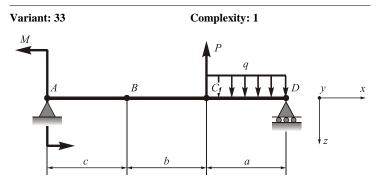
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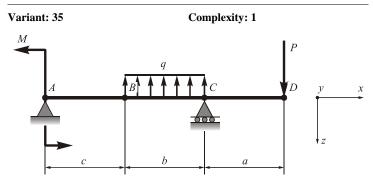
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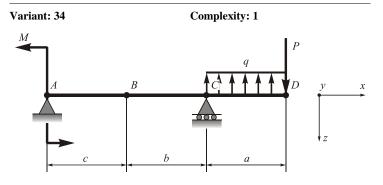
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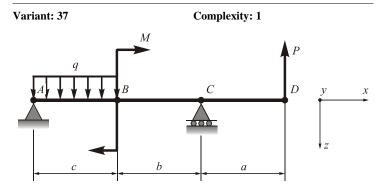
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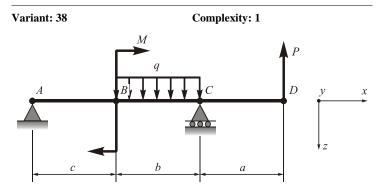
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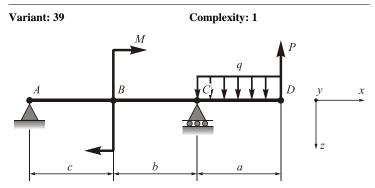
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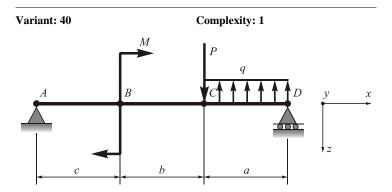
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National aerospace university "Kharkiv Aviation Institute" Department of aircraft strength

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**



Given: q = 10 kN/m, M = 20 kNm, P = 30 kN, a = 2 m, b = 3 m, c = 4 m.

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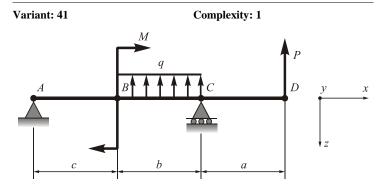
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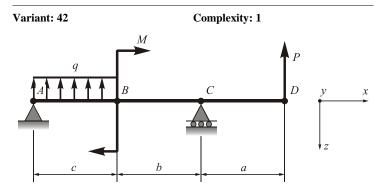
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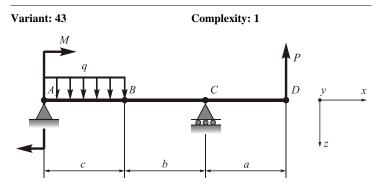
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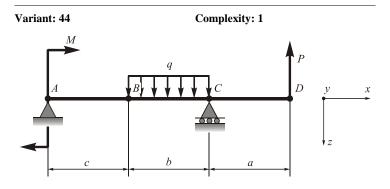
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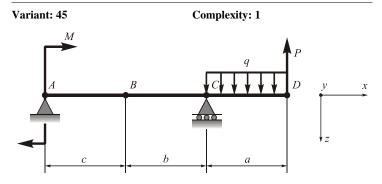
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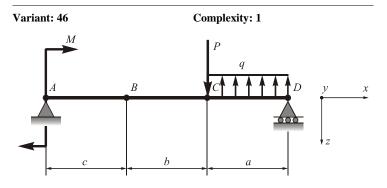
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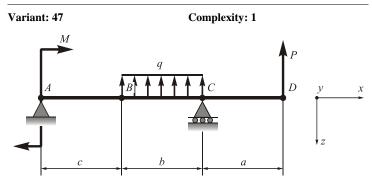
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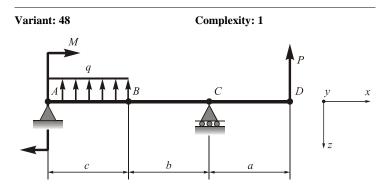
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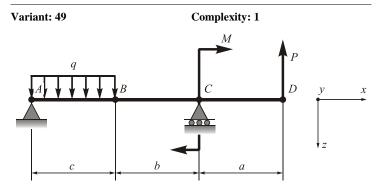
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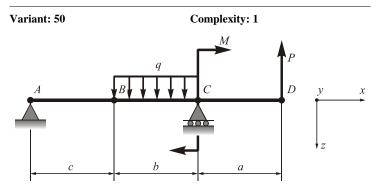
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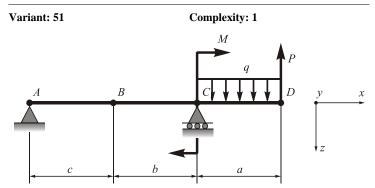
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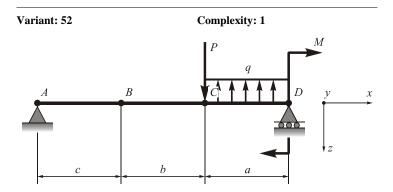
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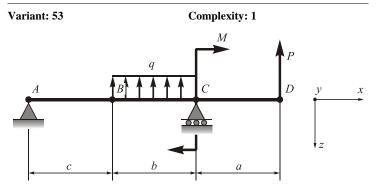
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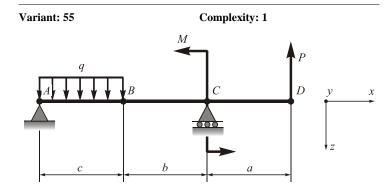
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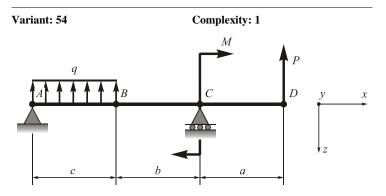
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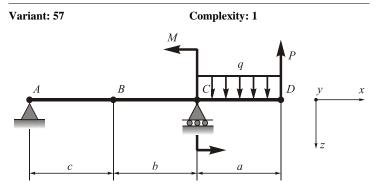
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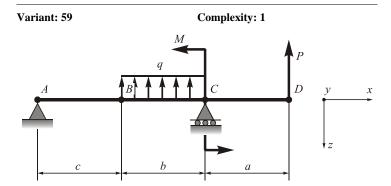
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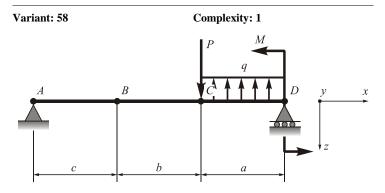
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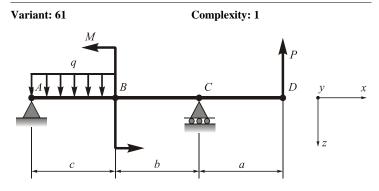
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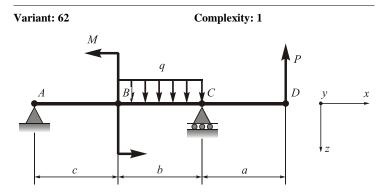
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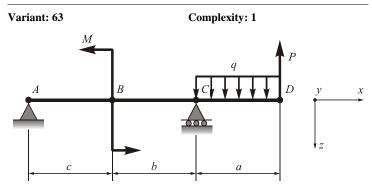
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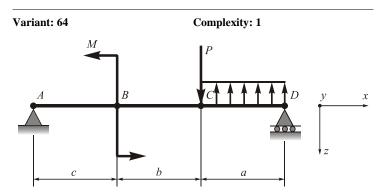
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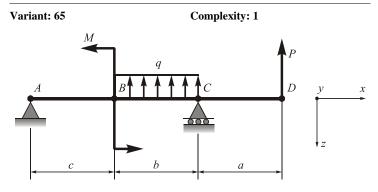
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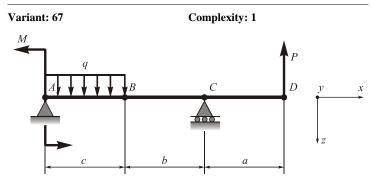
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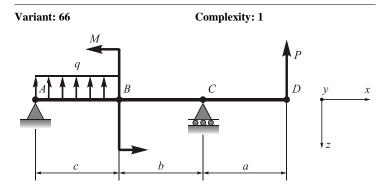
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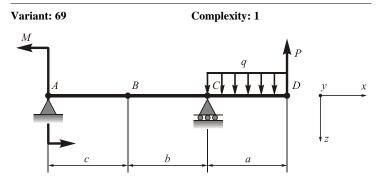
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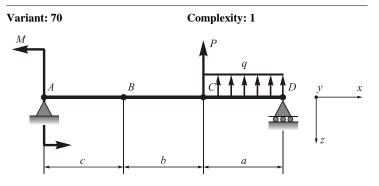
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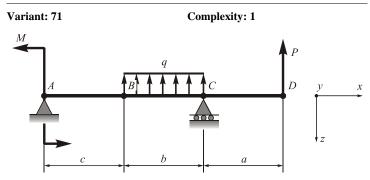
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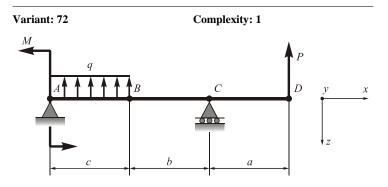
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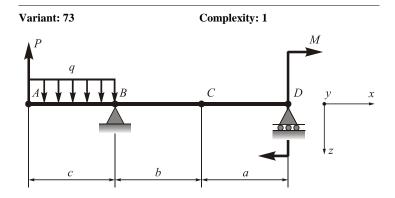
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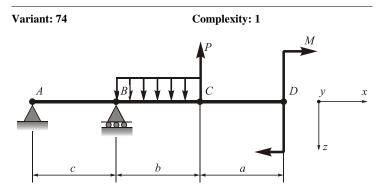
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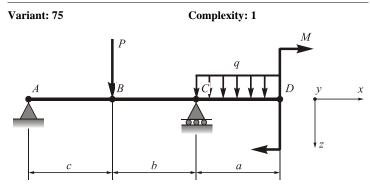
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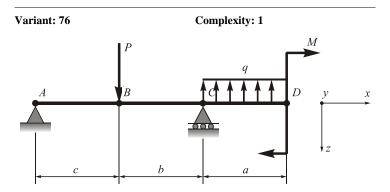
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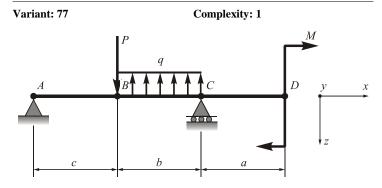
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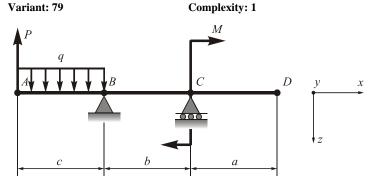
Mark:

National aerospace university "Kharkiv Aviation Institute" Department of aircraft strength

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



Given: q = 10 kN/m, M = 20 kNm, P = 30 kN, a = 2 m, b = 3 m, c = 4 m.

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

Full name of the lecturer

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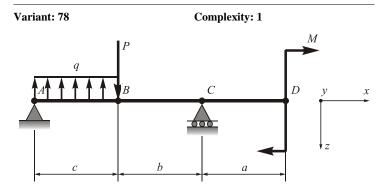
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Variant: 80 **Complexity: 1** M

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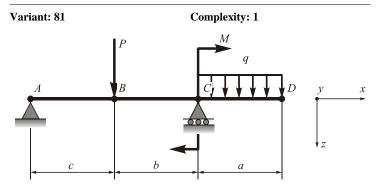
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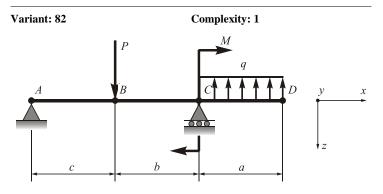
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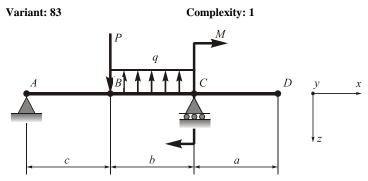
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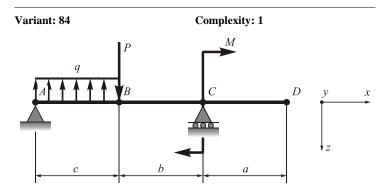
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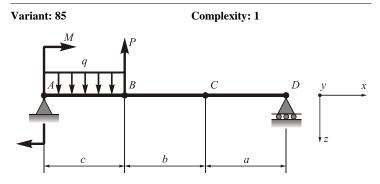
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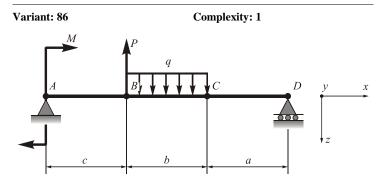
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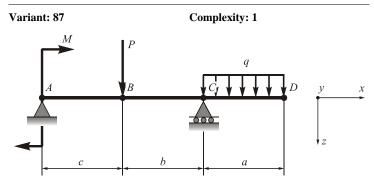
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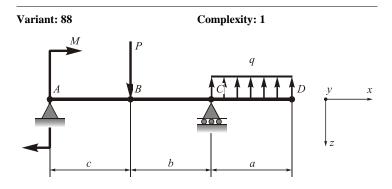
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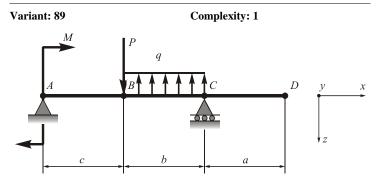
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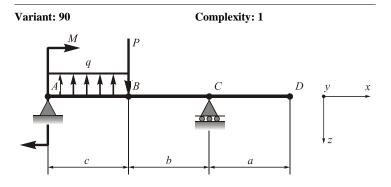
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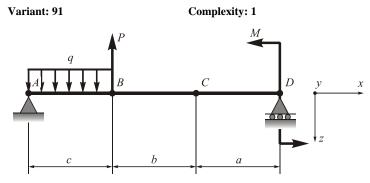
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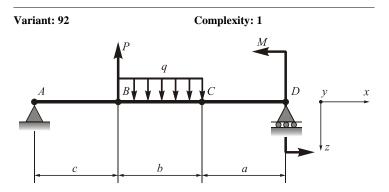
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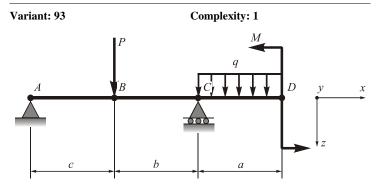
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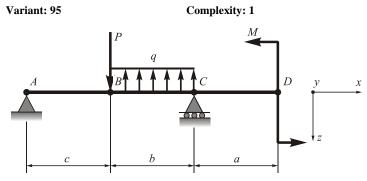
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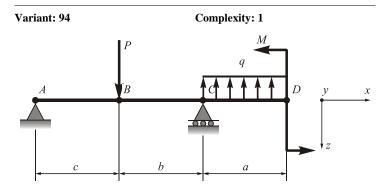
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Variant: 96 Complexity: 1 q P B C D y z z

Given: q = 10 kN/m, M = 20 kNm, P = 30 kN, a = 2 m, b = 3 m, c = 4 m.

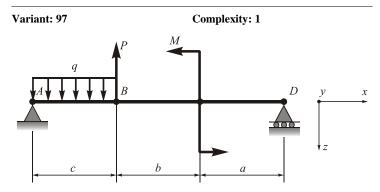
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National aerospace university "Kharkiv Aviation Institute" Department of aircraft strength

Subject: mechanics of materials

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Variant: 99 **Complexity: 1** R

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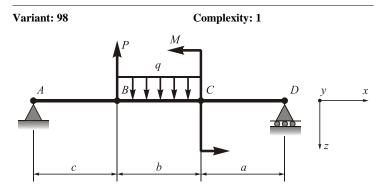
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National aerospace university "Kharkiv Aviation Institute" **Department of aircraft strength**

Subject: mechanics of materials

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National aerospace university "Kharkiv Aviation Institute" Department of aircraft strength

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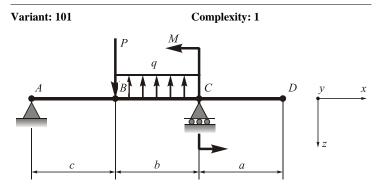
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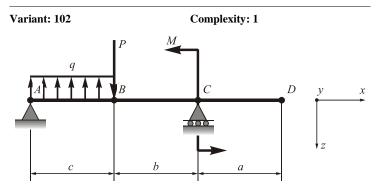
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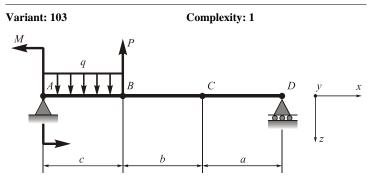
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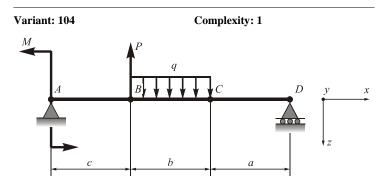
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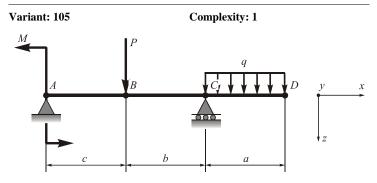
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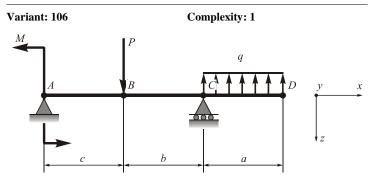
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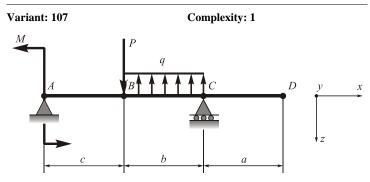
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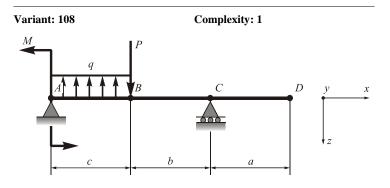
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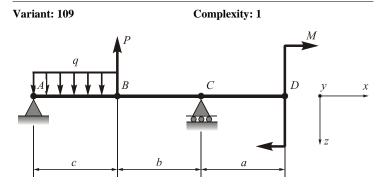
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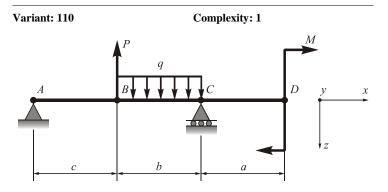
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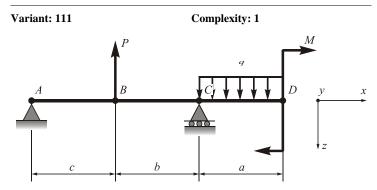
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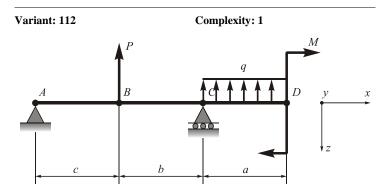
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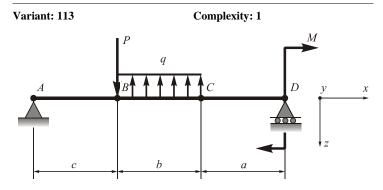
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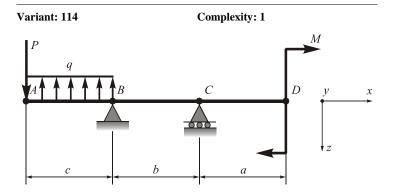
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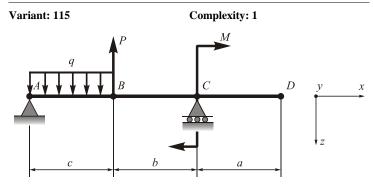
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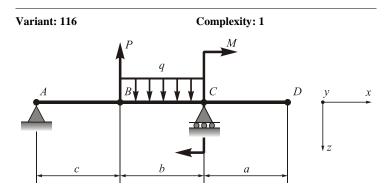
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Subject: mechanics of materials

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



Given: q = 10 kN/m, M = 20 kNm, P = 30 kN, a = 2 m, b = 3 m, c = 4 m.

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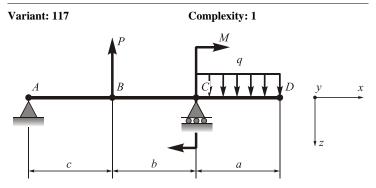
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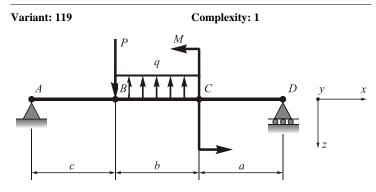
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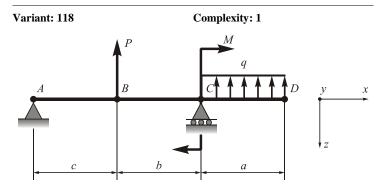
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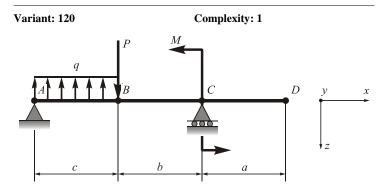
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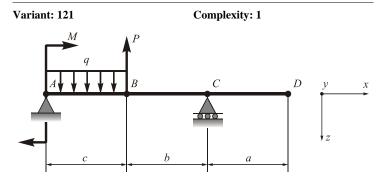
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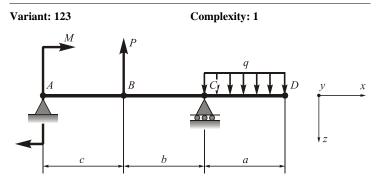
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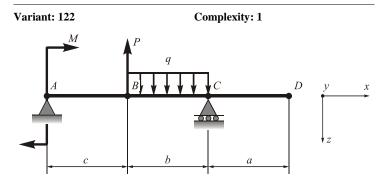
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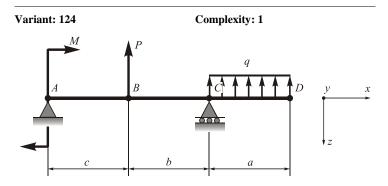
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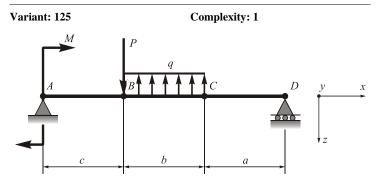
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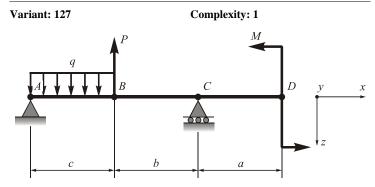
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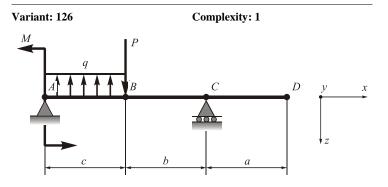
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Variant: 128 **Complexity: 1** D a

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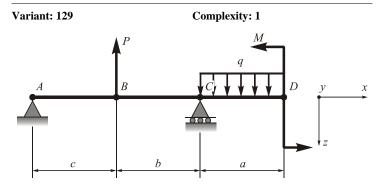
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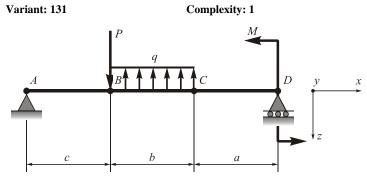
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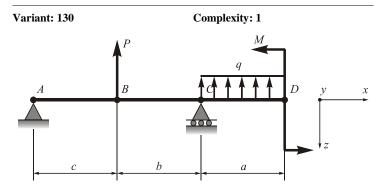
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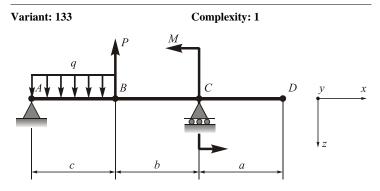
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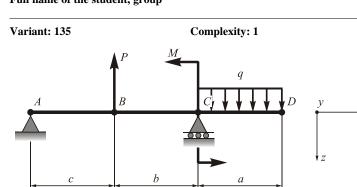
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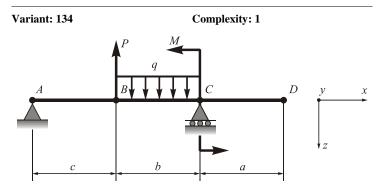
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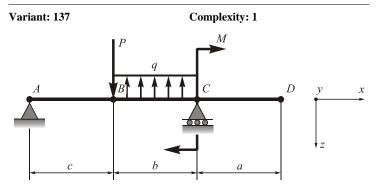
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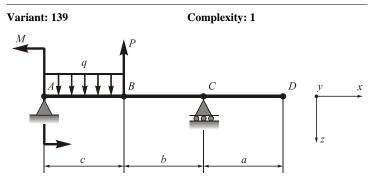
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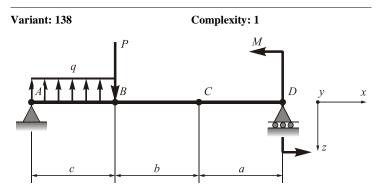
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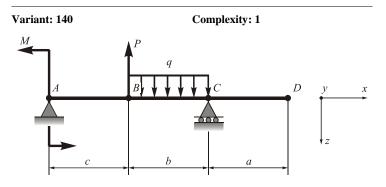
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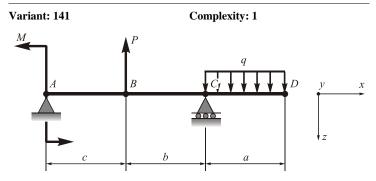
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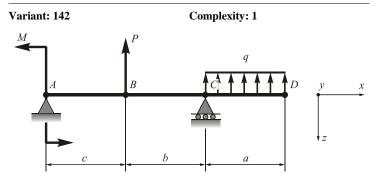
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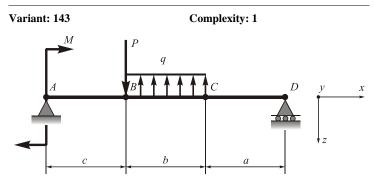
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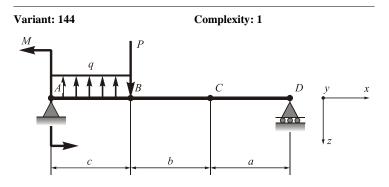
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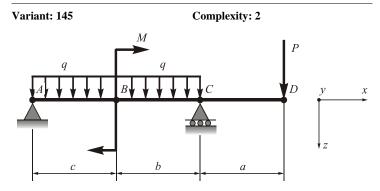
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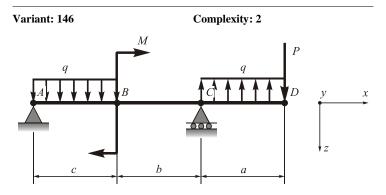
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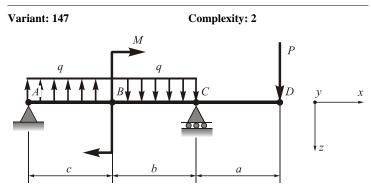
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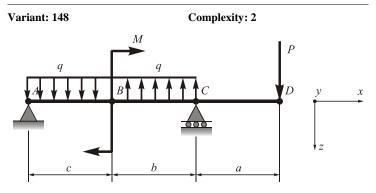
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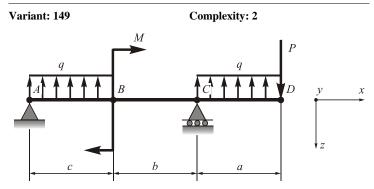
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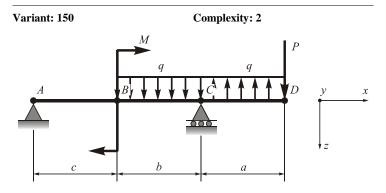
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