Remarks: See §5.1, page 154 till 162

Answers: Forces in kN

1. $A_h = 0$; $A_v = 2,5\ (\downarrow)$; $B_v = 2,5\ (\uparrow)$

2. $A_h = 0$; $A_v = 2,5\ (\downarrow)$; $B_v = 2,5\ (\uparrow)$

3. $A_h = 0$; $A_v = 2,5\ (\uparrow)$; $B_v = 2,5\ (\downarrow)$

4. $A_h = 0$; $A_v = 2,5\ (\downarrow)$; $B_v = 2,5\ (\uparrow)$

5. $A_h = 0$; $A_v = 1,5\ (\downarrow)$; $B_v = 1,5\ (\uparrow)$

6. $A_h = 0$; $A_v = 1,5\ (\downarrow)$; $B_v = 1,5\ (\uparrow)$

7. The load creates an equilibriumsystem: $A_h = A_v = B_v = 0$

8. $A_h = 0$; $A_v = 1\ (\downarrow)$; $B_v = 1\ (\uparrow)$

Remarks:

The location of the couple has no influence to the size of the support reactions, see exercises 1, 2 and 4, and also 5 and 6.

Because of the couple the support reactions in A and B are of the same size and in opposite direction.