Remarks: See §4.3, page 120 till 126

Answers:

r is the number of support reactions in a support

- 1. 1 hinged support; r = 25 – hinged support; r = 2
- 2. 1 fixed support; r = 34 - hinged support; r = 2
- 3. 1 fixed support; r = 34 - hinged support; r = 2
- 4. 1, 5 and 7 fixed supports; r = 3
- 5. 1 bar support; r = 1 (also see next page) 6 – hinged support; r = 2

- 6. 1 and 4 fixed supports; r = 3
- 7. 1 hinged support; r = 26 – roller support; r = 1
- 8. 1 hinged support; r = 24 – roller support; r = 1
- 9. 1 and 5 fixed supports; r = 3 6 eand 10 bar supports; r = 1 (also see next page)
- 10. 2 en 6 roller supports; r = 13 – hinged support; r = 2
- 11. 1 en 7 hinged supports; r = 2

See next page

page 1

Chapter 4, Structures

Remarks for exercises 4.9-5 and 4.9-9:

While answering these exercises we assumed that the loads don't work at the bars of a bar support.

A bar support is only loaded at the ends, see page 120, figure 4.11a When the bars are being loaded the problem changes, and the bar support becomes a hinged support.

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