

Opmerkingen: Zie §5.5, and so on.

example 1 on page 178

Antwoorden: All forces in kN

The normal force in a bar positive as a tensile force, and negative as a compressive force.

$$1a. A_h = 2 (\leftarrow); A_v = 18 (\uparrow)$$

$$B_h = 2 (\rightarrow); B_v = 2 (\downarrow)$$

$$1c. N^{(a)} = -11\sqrt{5} = -24,60$$

$$3a. A_h = 3 (\rightarrow); A_v = 7 (\uparrow)$$

$$B_h = 3 (\leftarrow); B_v = 3 (\uparrow)$$

$$3c. N^{(a)} = -5\sqrt{2} = -7,07$$

$$2a. A_h = 15 (\leftarrow); A_v = 5 (\downarrow)$$

$$B_h = 5 (\leftarrow); B_v = 5 (\uparrow)$$

$$2c. N^{(a)} = +10\sqrt{2} = +14,14$$

$$4a. A_h = 2,5 (\rightarrow); A_v = 2,5 (\uparrow)$$

$$B_h = 2,5 (\leftarrow); B_v = 7,5 (\uparrow)$$

$$4c. N^{(a)} = -\frac{25}{6}\sqrt{2} = -5,89$$