

Remarks: See §5.4, page 173 till 176

Answers: All forces in kN

The normal force in AB positive as a tensile force

1a. $A_h = 100 (\leftarrow); A_v = 100 (\downarrow); B_v = 100 (\uparrow)$

1b. $N^{(AB)} = +100$

2a. $A_v = 25 (\downarrow); B_h = 100 (\leftarrow); B_v = 25 (\uparrow)$

2b. $N^{(AB)} = -25$

3a. $A_h = 0; A_v = 25 (\uparrow); B_v = 75 (\uparrow)$

3b. $N^{(AB)} = +25$

4a. $A_v = 25 (\uparrow); B_h = 0; B_v = 75 (\uparrow)$

4b. $N^{(AB)} = 25$