

Remarks: See §3.1.8 and §3.1.9, page 68 till 71

Hints:

See the example on page 66

You can find F_b and F_c directly out of the momentum around the intersections of the lines of action of a and c, (a en b)

F_a follows from $\vec{F}_a = \vec{F} - (\vec{F}_b + \vec{F}_c)$, where \vec{F} is the given force of 5 kN. You can work this out graphically with a force polygon or analytically (see page 27).

Answers:

$$F_a = 4 \text{ kN (}\searrow\text{)}$$

$$F_b = 5\sqrt{2} \text{ kN (}\swarrow\text{)}$$

$$F_c = 3 \text{ kN (}\nearrow\text{)}$$