

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

Answers:

$$\sum T|_{S_{cd}} = 0 \rightarrow F_b = 30 \text{ kN } (\downarrow)$$

$$\sum T|_{S_{ac}} = 0 \rightarrow F_d = 30\sqrt{2} \text{ kN } (\nearrow)$$

$$\sum T|_{S_{ab}} = 0 \rightarrow F_c = 30 \text{ kN } (\downarrow)$$

Check: $\sum \vec{F} = 0$ (closed force polygon)