

Remarks: See § 2.1, page 27 till 30

Answers:

a. $F_{\perp\text{roof}} = 1366 \text{ N}$ (✓)

$$F_{//\text{roof}} = 366 \text{ N} (\nearrow)$$

b. $F_x = -1000 \text{ N}$

$$F_z = +1000 \text{ N}$$