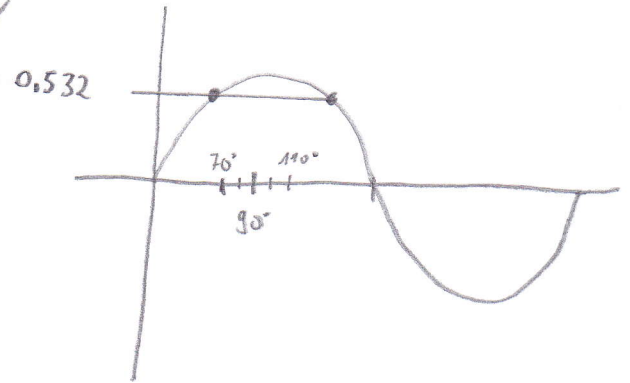
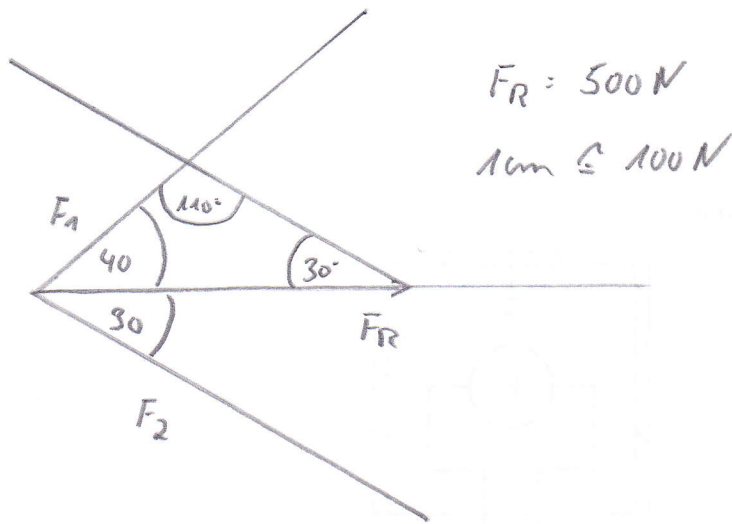




Nach Sinussatz

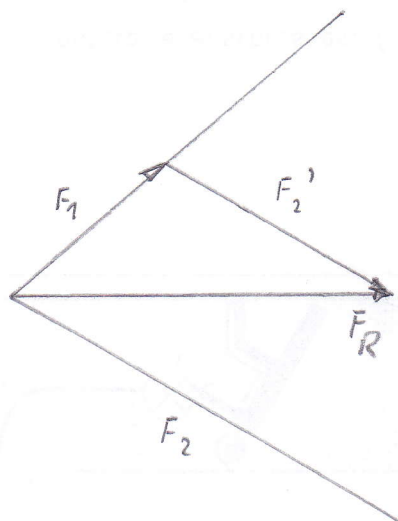
$$\frac{F_1}{F} = \frac{\sin 30^\circ}{\sin 110^\circ} \rightarrow \text{egal } 110^\circ \text{ oder } 70^\circ !$$

$$F_1 = \frac{\sin 30^\circ}{\sin 110^\circ} \cdot F = \frac{\sin 30^\circ}{\sin 110^\circ} \cdot 500 \text{ N} = 266 \text{ N}$$

$$\frac{F}{F_2} = \frac{\sin 110^\circ}{\sin 40^\circ}$$

$$\frac{F_2}{F} = \frac{\sin 40^\circ}{\sin 110^\circ}$$

$$F_2 = \frac{\sin 40^\circ}{\sin 110^\circ} \cdot F = \frac{\sin 40^\circ}{\sin 110^\circ} \cdot 500 \text{ N} = 342 \text{ N}$$



$$F_1 = 2,7 \text{ cm} \cdot 100 \frac{\text{N}}{\text{cm}} = 270 \text{ N}$$

$$F_2 = 3,4 \text{ cm} \cdot 100 \frac{\text{N}}{\text{cm}} = 340 \text{ N}$$