







$$\sin 40^\circ = \frac{F_{\text{vert}}}{60 \text{ N}}$$

$$\cos 40^\circ = \frac{F_{\text{horiz}}}{60 \text{ N}}$$

$$F_{\text{vert}} = 60 \text{ N} \times \sin 40^\circ$$

$$F_{\text{horiz}} = 60 \text{ N} \times \cos 40^\circ$$

$$F_{\text{vert}} = 38.6 \text{ N}$$

$$F_{\text{horiz}} = 45.9 \text{ N}$$