

Trig:

S_H⁰ C_H^A T_A⁰

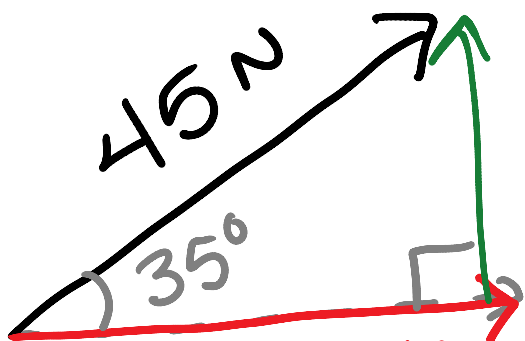
Vector:

Magnitude

45 Newtons

direction

@ 35° N of E



$$\sin 35^\circ = \frac{y}{45}$$

$$45 \sin 35^\circ = y$$
$$y = 25.81 \text{ N}$$

$$\cos 35^\circ = \frac{x}{45}$$

$$45 \cos 35^\circ = x$$

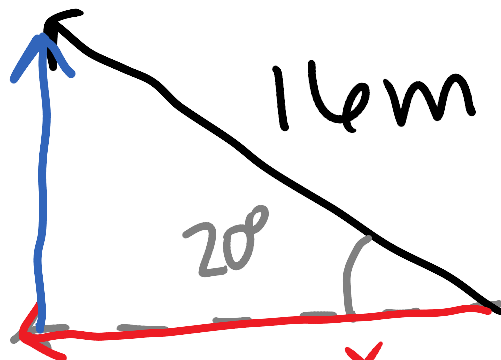
$$x = 36.97 \text{ N}$$

16m @ 20° N of W

$$\sin 20^\circ = \frac{y}{16\text{m}}$$

$$16\text{m} \sin 20^\circ = y$$

$$y = 5.47\text{m}$$



$$\cos 20^\circ = \frac{x}{16\text{m}}$$

$$16 \cos 20^\circ = x$$

$$x = 15.03\text{m}$$

