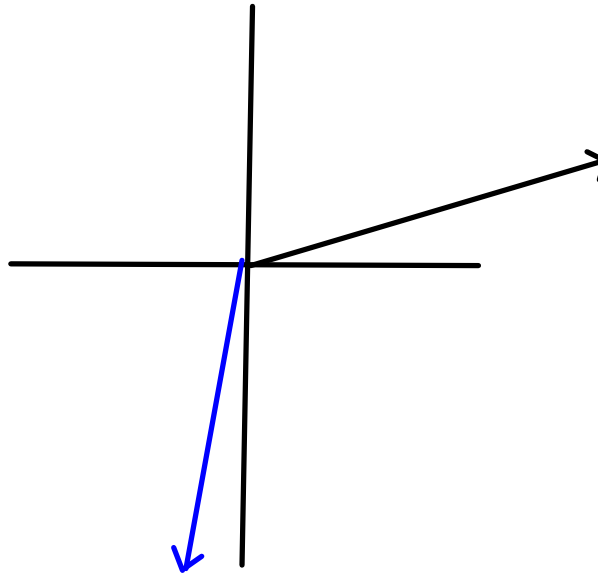


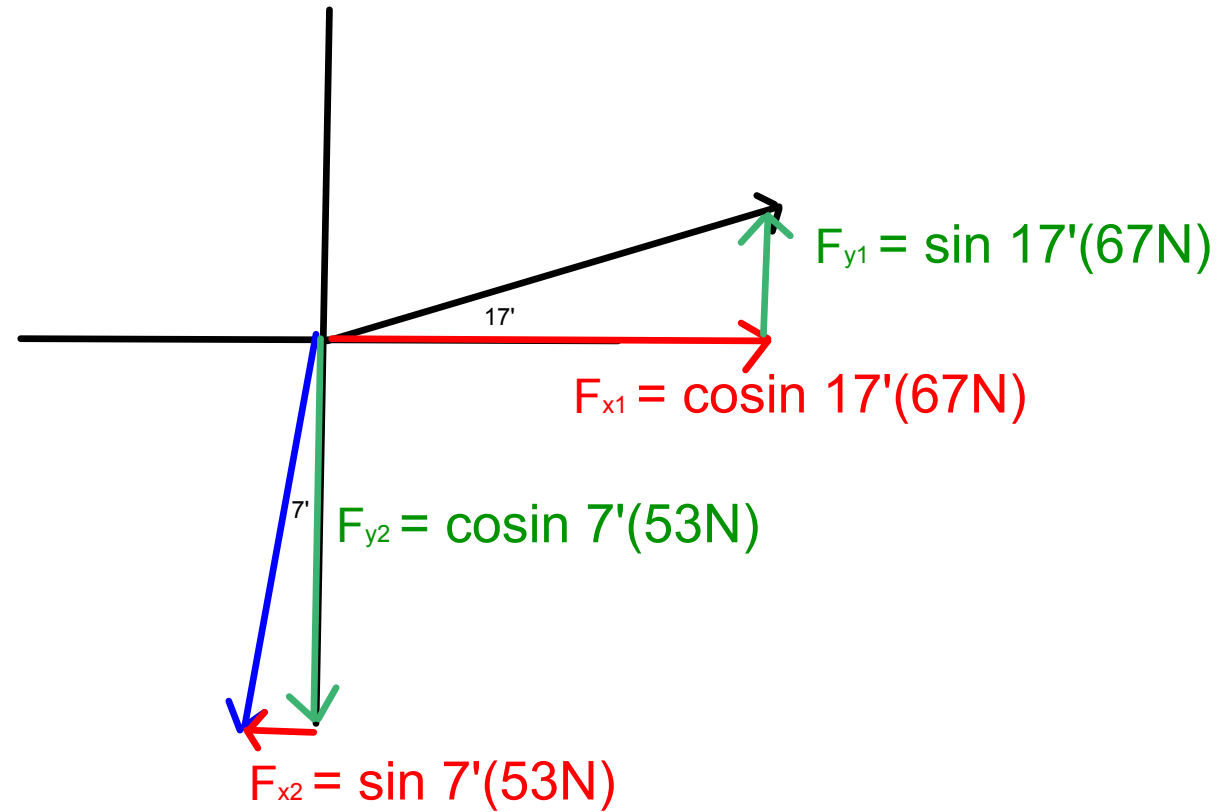
$F = 67 \text{ N}$ at 17°

$F = 53 \text{ N}$ at 263°



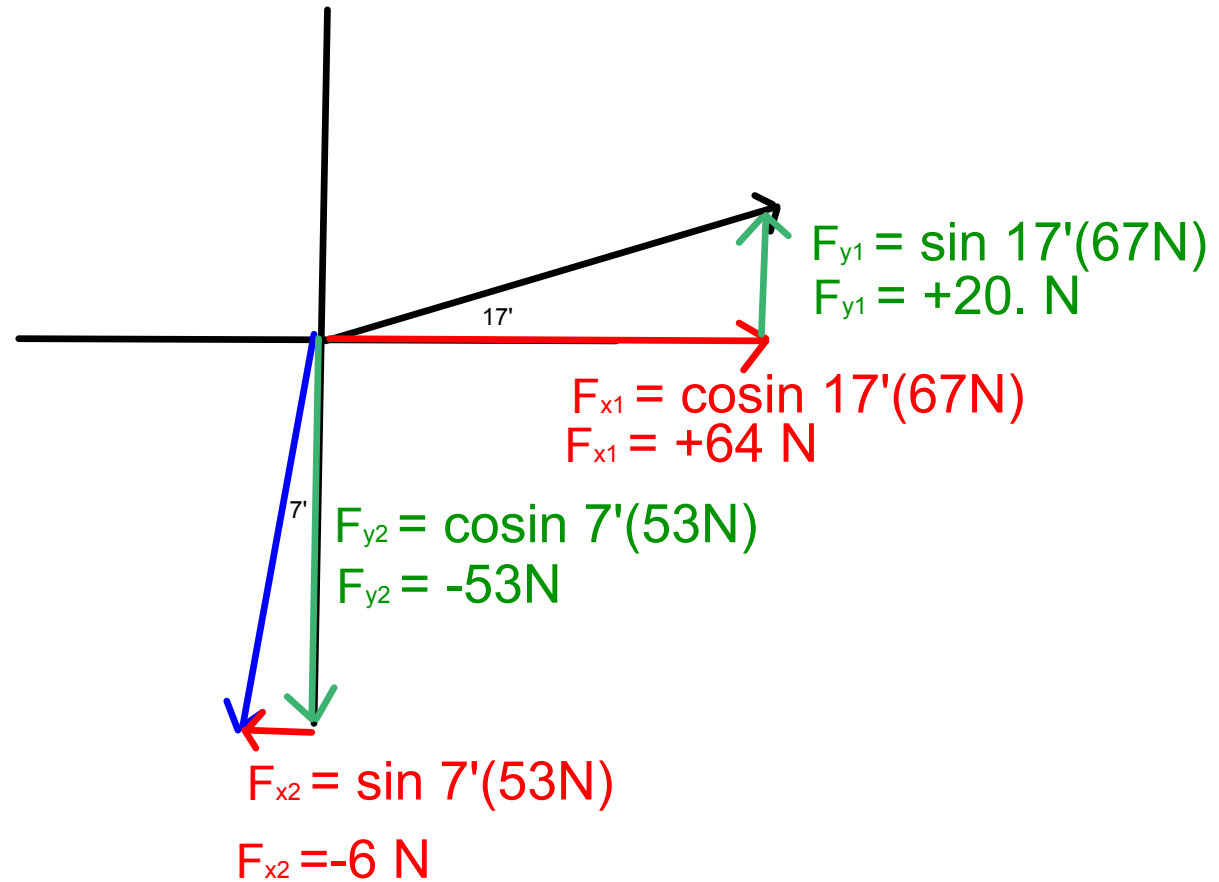
$F = 67 \text{ N}$ at 17°

$F = 53 \text{ N}$ at 263°



$F = 67 \text{ N}$ at 17°

$F = 53 \text{ N}$ at 263°



$F = 67 \text{ N}$ at 17°

$F = 53 \text{ N}$ at 263°

$$\Sigma F_x: F_{x1} = +64 \text{ N}$$

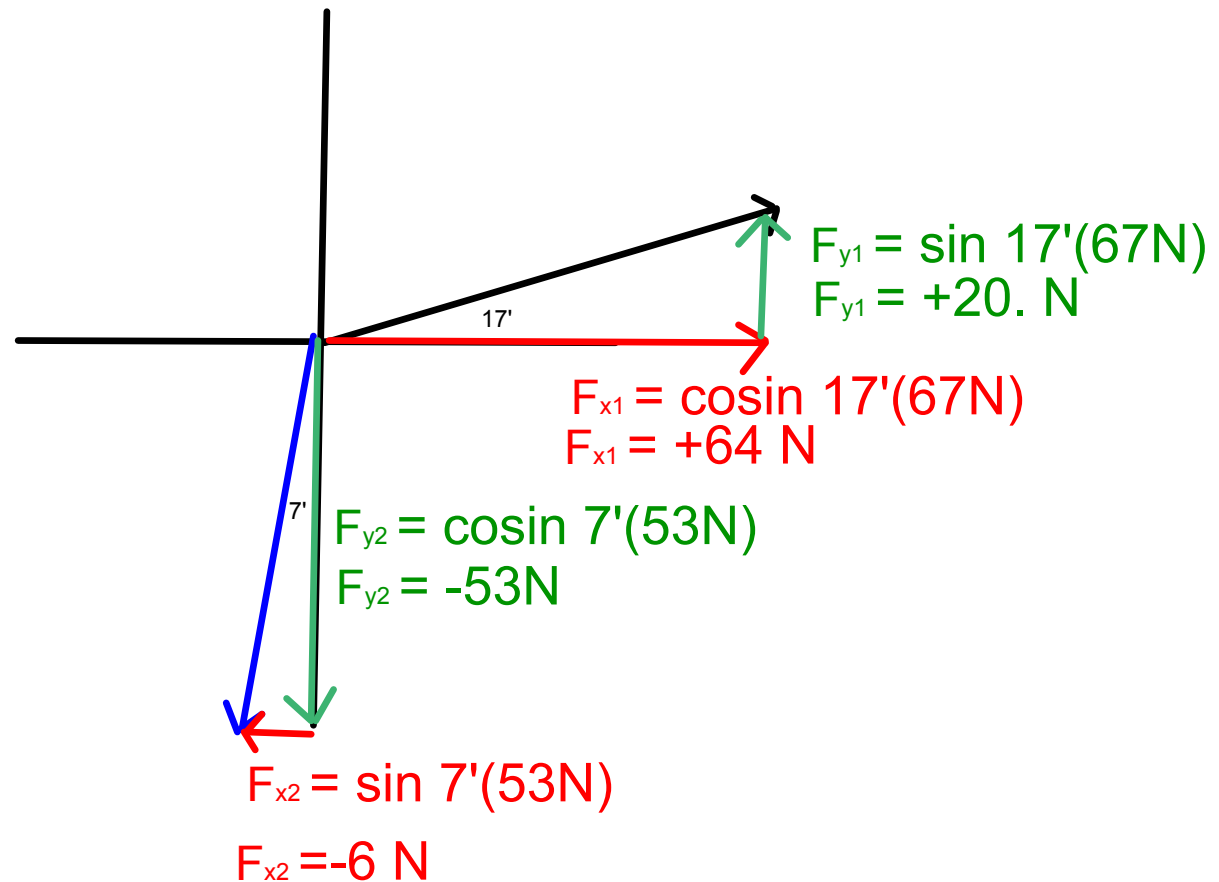
$$F_{x2} = -6 \text{ N}$$

$$\Sigma F_x = +58$$

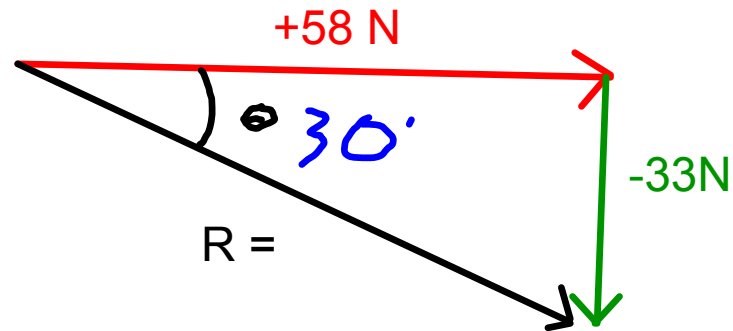
$$\Sigma F_y: F_{y1} = +20 \text{ N}$$

$$F_{y2} = -53 \text{ N}$$

$$\Sigma F_y = -33 \text{ N}$$



$$\begin{aligned}\Sigma F_x &= +58 \\ &\text{N} \\ \Sigma F_y &= -33 \text{ N}\end{aligned}$$



$$R = \sqrt{(58 \text{ N})^2 + (33 \text{ N})^2}$$

$$R = 67 \text{ N at } 330^\circ$$

$$\tan \theta = \frac{33 \text{ N}}{58 \text{ N}}$$

$$\theta = 30^\circ$$

$$\} 60 - 30 = 330$$