F_A = 10 N
F_B = 5 N

$$\Theta_A$$
 = 50°
 Θ_B = 35°

$$y$$
 θ_B
 θ_A
 x
 F_A

Solution:

$$f_{BX} = 5 \sin 35 = 2.868 \text{ N}$$
 $f_{BY} = 5 \cos 36 = 4.1 \text{ N}$
 $f_{AX} = 10 \cos 50 = 6.43 \text{ N}$

$$f_{AX} = 10 cos 50 = 6.43 N$$

$$f_{AY} = -10 sin 50 = -7.66 N$$

$$= 2.869 + 6.43 = 92 N$$

$$F_{R} = \sqrt{9.3^2 + 3.56^2} = 9.96 N$$

$$\theta_{0} = + \alpha n^{-1} \left(-3.56/9.3 \right) = -21^{\circ} \Rightarrow \Theta$$

$$F_{R} = 975 \text{ N}$$

$$\Theta_{A} = 40^{\circ}$$

$$\Theta_{B} = 75^{\circ}$$

