

Problem 3-1

Determine the magnitudes of F_1 and F_2 so that the particle is in equilibrium.

Given:

$$F = 500 \text{ N}$$

$$\theta_1 = 45^\circ$$

$$\theta_2 = 30^\circ$$

Solution:

Initial Guesses

$$F_1 = 1 \text{ N} \quad F_2 = 1 \text{ N}$$

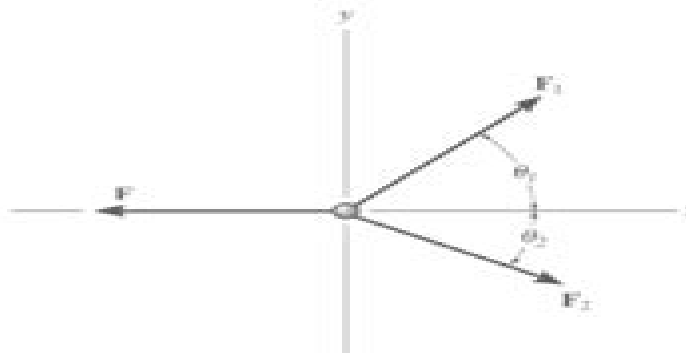
Given

$$\rightarrow \Sigma F_x = 0; \quad F_1 \cos(\theta_1) + F_2 \cos(\theta_2) - F = 0$$

$$+\uparrow \Sigma F_y = 0; \quad F_1 \sin(\theta_1) - F_2 \sin(\theta_2) = 0$$

$$\begin{pmatrix} F_1 \\ F_2 \end{pmatrix} = \text{Find}(F_1, F_2)$$

$$\begin{pmatrix} F_1 \\ F_2 \end{pmatrix} = \begin{pmatrix} 259 \\ 366 \end{pmatrix} \text{ N}$$

**Problem 3-2**

Determine the magnitude and direction θ of F so that the particle is in equilibrium.

Units Used:

$$\text{kN} = 10^3 \text{ N}$$

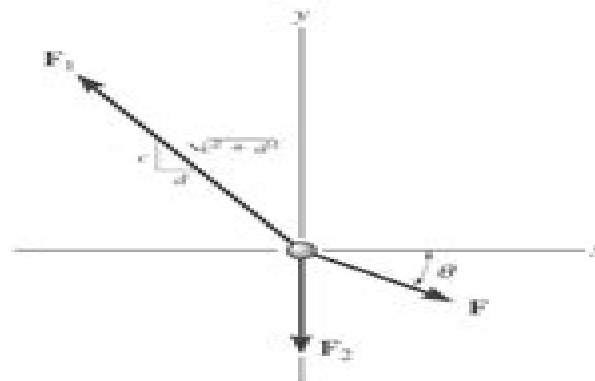
Given:

$$F_1 = 7 \text{ kN}$$

$$F_2 = 3 \text{ kN}$$

$$c = 4$$

$$d = 3$$



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