Problem 3-1

Determine the magnitudes of F, and F, so that the particle is in equilibrium.

Given:

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

$$\theta_I = 45 \deg$$

$$\theta_2 = 30 \deg$$

Solution:

Initial Guesses

$$F_I = 1N$$
 $F_2 = 1N$

Girnen.

$$\stackrel{+}{\longrightarrow} \Sigma F_s = 0;$$
 $F_I \cos(\theta_I) + F_2 \cos(\theta_2) - F = 0$

$$+\uparrow \Sigma F_y = 0;$$
 $F_I \sin(\theta_I) - F_2 \sin(\theta_2) = 0$

$$\begin{pmatrix} F_I \\ F_2 \end{pmatrix} = Find(F_I, F_2)$$
 $\begin{pmatrix} F_I \\ F_2 \end{pmatrix} = \begin{pmatrix} 259 \\ 366 \end{pmatrix} N$



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

Units Used:

$$kN = 10^3 N$$

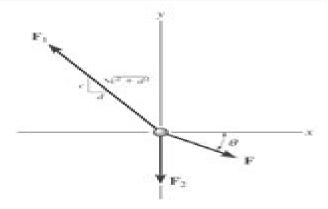
Girvien:

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

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

$$c = 4$$

$$d = 3$$



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Zhe Xu

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