



$$F_{1y} = +F_1 \cos 30^\circ = 10\text{k}(0.866) = 8.66\text{k}$$

$$F_{1x} = +F_1 \sin 30^\circ = 10\text{k}(0.50) = 5\text{k}$$

$$F_2 = -F_{2x} = -12\text{k}$$

$$F_{3x} = +\frac{1}{\sqrt{2}}(F_3) = +\frac{18\text{k}}{\sqrt{2}}$$

$$F_{3y} = -\frac{1}{\sqrt{2}}(F_3) = -\frac{18\text{k}}{\sqrt{2}}$$

$$R_x = \Sigma F_x = +5\text{k} - 12\text{k} + \frac{18\text{k}}{\sqrt{2}} = +5.73\text{k}$$

$$R_y = \Sigma F_y = +8.66\text{k} - \frac{18\text{k}}{\sqrt{2}} = -4.07\text{k}$$

$$\tan \theta = \frac{R_y}{R_x} = \frac{4.07}{5.73} = 0.710$$

$$\theta = \tan^{-1}(0.710) = 35.4^\circ \text{ from horizontal}$$

$$\sin \theta = \frac{R_y}{R}$$

$$R = \frac{R_y}{\sin \theta} = \frac{R_y}{\sin 35.4^\circ}$$

$$\therefore R = \frac{4.07\text{k}}{(0.579)} = 7.03\text{k}$$

Graphical solution using the tip-to-tail method

Statics And Strengths Of Materials Solutions Manual

Don A. Halperin



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