

$$\begin{aligned} \underline{2/1} \quad \begin{cases} F_x = -800 \sin 35^\circ = -459 \text{ N} \\ F_y = 800 \cos 35^\circ = 655 \text{ N} \end{cases} \\ \underline{F = -459\mathbf{i} + 655\mathbf{j} \text{ N}} \end{aligned}$$

$$\begin{aligned} \underline{2/2} \quad F &= 600 (\cos 30^\circ \mathbf{i} - \sin 30^\circ \mathbf{j}) \\ &= 520\mathbf{i} - 300\mathbf{j} \text{ lb} \\ \text{Scalar components: } \begin{cases} F_x = 520 \text{ lb} \\ F_y = -300 \text{ lb} \end{cases} \end{aligned}$$

$$\text{Vector components: } \begin{cases} F_x = 520\mathbf{i} \text{ lb} \\ F_y = -300\mathbf{j} \text{ lb} \end{cases}$$

$$\begin{aligned} \underline{2/3} \quad F &= 4.8 \left(-\frac{3}{5}\mathbf{i} - \frac{4}{5}\mathbf{j} \right) \\ &= -2.88\mathbf{i} - 3.84\mathbf{j} \text{ kN} \end{aligned}$$

$$\begin{aligned} \underline{2/4} \quad F &= F \sin \theta = 4800 \left[\frac{45\mathbf{i} + 30\mathbf{j}}{\sqrt{45^2 + 30^2}} \right] \\ &= 3990\mathbf{i} + 2660\mathbf{j} \text{ lb} \\ \text{Scalar components: } \begin{cases} F_x = 3990 \text{ lb} \\ F_y = 2660 \text{ lb} \end{cases} \end{aligned}$$

$$\begin{aligned} \underline{2/5} \quad \begin{array}{c} \text{Diagram: A cable segment AB with forces } T_A \text{ and } T_B \text{ at ends A and B respectively. A right triangle is formed with horizontal side 2 and vertical side 3, with angle } \theta \text{ at the bottom right vertex.} \end{array} \\ T_A = T_B = T = 900 \text{ lb} \\ \sin \theta = \frac{2}{\sqrt{2^2 + 3^2}} = 0.555 \\ \cos \theta = \frac{3}{\sqrt{2^2 + 3^2}} = 0.832 \\ T_A = 900 (0.832\mathbf{i} - 0.555\mathbf{j}) = 749\mathbf{i} - 499\mathbf{j} \text{ lb} \\ T_B = -T_A = -749\mathbf{i} + 499\mathbf{j} \text{ lb} \end{aligned}$$

$$\underline{2/6} \quad F = 1200 \left(-\frac{3}{5}\mathbf{i} - \frac{4}{5}\mathbf{j} \right) = -1080\mathbf{i} - 1440\mathbf{j} \text{ N}$$

$$\begin{aligned} \underline{2/7} \quad \begin{array}{c} \text{Diagram: Two forces acting on a point O. Force 1 is 2 kN at 30^\circ below the negative x-axis. Force 2 is 3 kN at 60^\circ above the negative x-axis.} \end{array} \\ R_x = \Sigma F_x = -2 \cos 30^\circ - 3 \cos 60^\circ = -3.23 \text{ kN} \\ R_y = \Sigma F_y = 2 \sin 30^\circ - 3 \sin 60^\circ = -1.598 \text{ kN} \\ R = \sqrt{R_x^2 + R_y^2} = 3.61 \text{ kN} \\ \theta = \tan^{-1} \left(\frac{R_y}{R_x} \right) = \tan^{-1} \left(\frac{-1.598}{-3.23} \right) = 206^\circ \end{aligned}$$

$$\begin{aligned} \underline{2/8} \quad \begin{array}{c} \text{Diagram: Two forces F_1 = 800 lb and F_2 = 425 lb acting on a point. F_1 is at 70^\circ from the negative x-axis. F_2 is at an angle \theta from the positive x-axis.} \end{array} \\ R_x = \Sigma F_x = 800 \cos 70^\circ - 425 \cos \theta = 0 \\ \theta = 49.9^\circ \\ R_y = \Sigma F_y = -800 \sin 70^\circ - 425 \sin 49.9^\circ \\ = -1077 \text{ lb} \\ S = R = 1077 \text{ lb} \end{aligned}$$

$$\begin{aligned} \underline{2/9} \quad \begin{cases} T_x = -260 \left(\frac{3}{13} \right) = -240 \text{ N} \\ T_y = -260 \left(\frac{12}{13} \right) = -100 \text{ N} \end{cases} \end{aligned}$$

$$\begin{aligned} \underline{2/10} \quad \begin{array}{c} \text{Diagram: A force P = 260 N acting on a point. The force is resolved into components along a line t and a line n. The angle between P and t is \alpha = 22.4^\circ. The angle between P and n is \beta = 7.38^\circ.} \end{array} \\ \alpha = \tan^{-1} \frac{5}{12} = 22.4^\circ \\ \beta = 30^\circ - \alpha = 30^\circ - 22.4^\circ = 7.38^\circ \\ P_n = P \cos \beta = 260 \cos 7.38^\circ = 258 \text{ N} \\ P_t = P \sin \beta = 260 \sin 7.38^\circ = 33.4 \text{ N} \end{aligned}$$

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