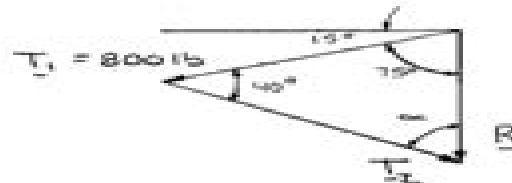




PROBLEM 2.6

A telephone cable is clamped at A to the pole AB . Knowing that the tension in the left-hand portion of the cable is $T_1 = 800$ lb, determine by trigonometry (a) the required tension T_2 in the right-hand portion if the resultant \mathbf{R} of the forces exerted by the cable at A is to be vertical, (b) the corresponding magnitude of \mathbf{R} .

SOLUTION



Using the triangle rule and the law of sines:

(a)

$$\begin{aligned} 75^\circ + 40^\circ + \alpha &= 180^\circ \\ \alpha &= 180^\circ - 75^\circ - 40^\circ \\ &= 65^\circ \end{aligned}$$

$$\frac{800 \text{ lb}}{\sin 65^\circ} = \frac{T_2}{\sin 75^\circ}$$

$$T_2 = 853 \text{ lb} \quad \blacktriangleleft$$

(b)

$$\frac{800 \text{ lb}}{\sin 65^\circ} = \frac{R}{\sin 40^\circ}$$

$$R = 567 \text{ lb} \quad \blacktriangleleft$$

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