

PROBLEM 2.9

A disabled automobile is pulled by means of two ropes as shown. Knowing that the tension in rope AB is 3 kN, determine by trigonometry the tension in rope AC and the value of α so that the resultant force exerted at A is a 4.8-kN force directed along the axis of the automobile.

SOLUTION



Using the law of cosines:

$$T_{AC}^2 = (3 \text{ kN})^2 + (4.8 \text{ kN})^2 - 2(3 \text{ kN})(4.8 \text{ kN})\cos 30^\circ$$

$$T_{AC} = 2.6643 \text{ kN}$$

Using the law of sines:

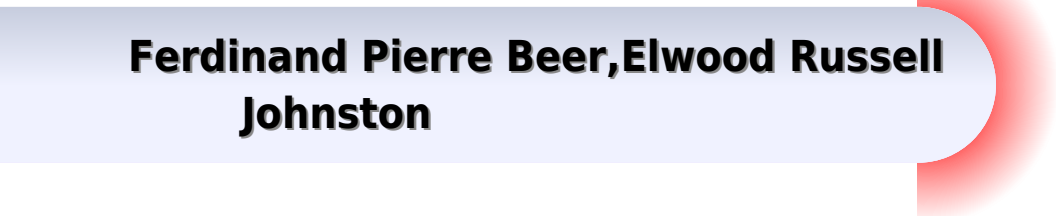
$$\frac{\sin \alpha}{3 \text{ kN}} = \frac{\sin 30^\circ}{2.6643 \text{ kN}}$$

$$\alpha = 34.3^\circ$$

$$T_{AC} = 2.66 \text{ kN} \searrow 34.3^\circ \quad \blacktriangleleft$$

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**Ferdinand Pierre Beer, Elwood Russell
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