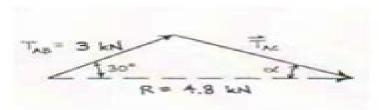
### PROBLEM 2.9



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  $\alpha$  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:

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

$$T_{\rm ec} = 2.6643 \, \rm kN$$

Using the law of sines:

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

$$\alpha = 34.3^{\circ}$$

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

# **Vector Mechanics For Engineers Statics 6th Edition Solution Manual**

**Julia Schneider** 

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