



PROBLEM 2.44

Two cables are tied together at C and are loaded as shown. Knowing that $\alpha = 30^\circ$, determine the tension (a) in cable AC , (b) in cable BC .

SOLUTION

Free-Body Diagram



Force Triangle



Law of sines:

$$\frac{T_{AC}}{\sin 60^\circ} = \frac{T_{BC}}{\sin 35^\circ} = \frac{6 \text{ kN}}{\sin 85^\circ}$$

(a)

$$T_{AC} = \frac{6 \text{ kN}}{\sin 85^\circ} (\sin 60^\circ)$$

$$T_{AC} = 5.22 \text{ kN} \blacktriangleleft$$

(b)

$$T_{BC} = \frac{6 \text{ kN}}{\sin 85^\circ} (\sin 35^\circ)$$

$$T_{BC} = 3.45 \text{ kN} \blacktriangleleft$$

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Ying Liu



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