



PROBLEM 2.46

Two cables are tied together at C and are loaded as shown. Knowing that $P = 500 \text{ N}$ and $\alpha = 60^\circ$, determine the tension in (a) in cable AC , (b) in cable BC .

SOLUTION

Free-Body Diagram



Force Triangle



Law of sines:

$$\frac{T_{AC}}{\sin 35^\circ} = \frac{T_{BC}}{\sin 75^\circ} = \frac{500 \text{ N}}{\sin 70^\circ}$$

(a)

$$T_{AC} = \frac{500 \text{ N}}{\sin 70^\circ} \sin 35^\circ$$

$$T_{AC} = 305 \text{ N} \quad \blacktriangleleft$$

(b)

$$T_{BC} = \frac{500 \text{ N}}{\sin 70^\circ} \sin 75^\circ$$

$$T_{BC} = 514 \text{ N} \quad \blacktriangleleft$$

Static Vector For Engineers By Beer 10th

G Thomas



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