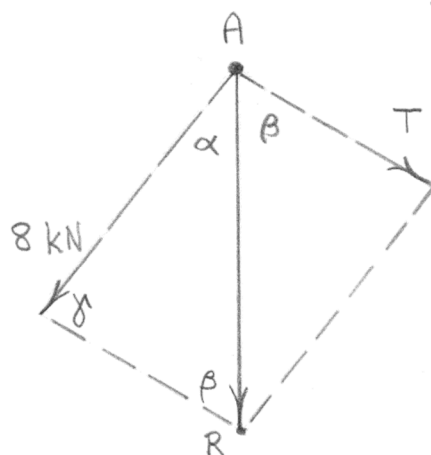


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$$\begin{cases} \alpha = \tan^{-1} \frac{40}{50} = 38.7^\circ \\ \beta = \tan^{-1} \frac{50}{30} = 59.0^\circ \end{cases}$$

$$\begin{aligned} \gamma &= 180^\circ - \alpha - \beta \\ &= 82.3^\circ \end{aligned}$$

$$\frac{\sin \beta}{8} = \frac{\sin \alpha}{T}$$

$$\underline{T = 5.83 \text{ kN}}$$

$$\frac{\sin \beta}{8} = \frac{\sin \gamma}{R},$$

$$\underline{R = 9.25 \text{ kN}}$$

WILEY