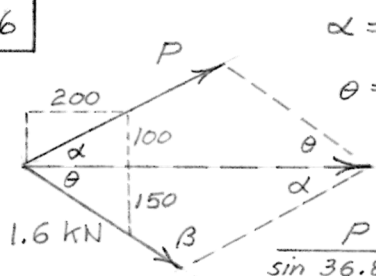


2/26



$$\alpha = \tan^{-1} \frac{100}{200} = 26.57^\circ$$

$$\theta = \tan^{-1} \frac{150}{200} = 36.87^\circ$$

$$\beta = 180 - (\alpha + \theta) = 116.57^\circ$$

$$\frac{P}{\sin 36.87^\circ} = \frac{1.6}{\sin 26.57^\circ}$$

$$P = 1.6 \frac{0.6}{0.4472} = \underline{2.15 \text{ kN}}$$

$$\frac{T}{\sin 116.57^\circ} = \frac{1.6}{\sin 26.57^\circ} \quad T = 1.6 \frac{0.8944}{0.4472} = \underline{3.20 \text{ kN}}$$

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