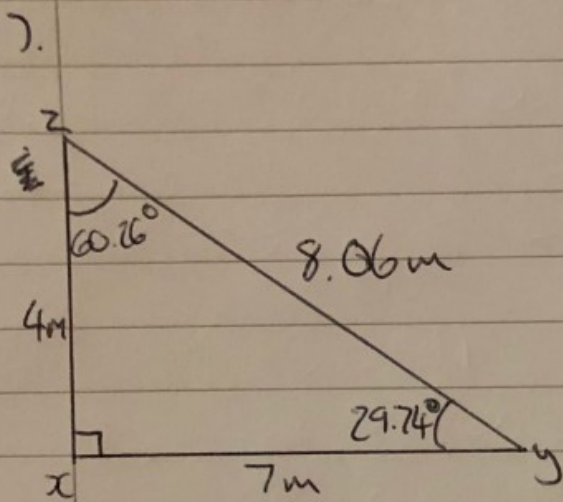




i. Angle Y opp & adj = Tan

$$\cancel{\text{Tan}} \text{ Tan } Y = \frac{4}{7}$$

$$\cancel{Y} Y = \text{Tan}^{-1} \frac{4}{7}$$

$$Y = 29.74^\circ$$

ii. Angle Z

$$Z = 180^\circ - 90^\circ - 29.74^\circ$$

$$Z = 60.26^\circ$$

iii. Length YZ

$$YZ^2 = xz^2 + xy^2$$

$$YZ^2 = 4^2 + 7^2$$

$$YZ^2 = 16 + 49$$

$$YZ^2 = 65$$

$$YZ = \sqrt{65}$$

$$YZ = 8.06m$$

$$YZ = \frac{4}{\cancel{\text{sin}} \text{ sin } 29.74}$$

$$YZ = 8.06m$$