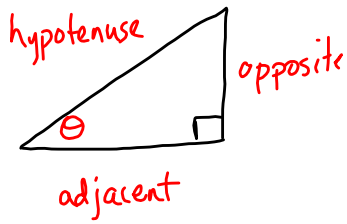


# Review of Right Angle Trigonometry

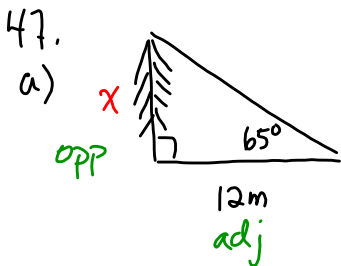


$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$\cos \theta = \frac{\text{adj}}{\text{hyp}}$$

$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

SOH | CAH | TOA

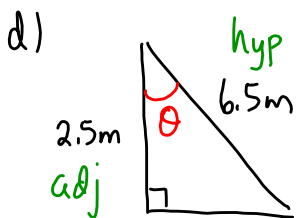


$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

$$\tan 65^\circ = \frac{x}{12\text{m}}$$

$$x = (12\text{m}) \tan 65^\circ$$

$$x \approx 26\text{m}$$



$$\cos \theta = \frac{\text{adj}}{\text{hyp}}$$

$$\cos \theta = \frac{2.5\text{m}}{6.5\text{m}}$$

$$\theta = \cos^{-1} \left( \frac{2.5\text{m}}{6.5\text{m}} \right)$$

↑  
2nd cos or inverse cos

$$\theta = 67^\circ$$