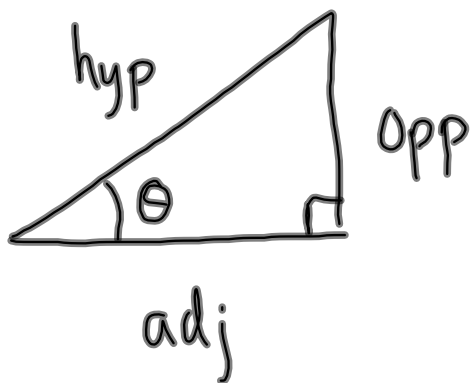


Right Angle Trigonometry Review



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

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

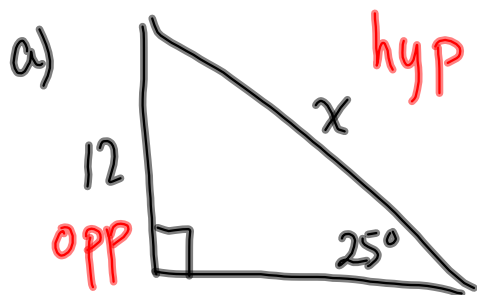
SOHCAHTOA

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

Also: $c^2 = a^2 + b^2$

(Pythagorean Theorem)

Determine the missing measure in each triangle



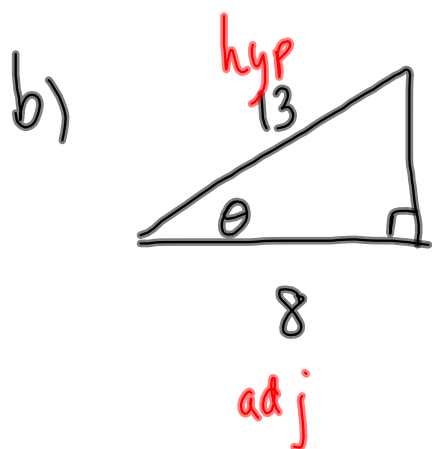
$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$x \sin 25^\circ = \frac{12}{x} \cdot x$$

$$\frac{x \cancel{\sin 25^\circ}}{\cancel{\sin 25^\circ}} = \frac{12}{\sin 25^\circ}$$

$$x = \frac{12}{\sin 25^\circ}$$

$$x \doteq 28.4$$



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

$$\cos \theta = \frac{8}{13}$$

$$\theta = \cos^{-1}\left(\frac{8}{13}\right)$$

$$\theta \doteq 52.0^\circ$$