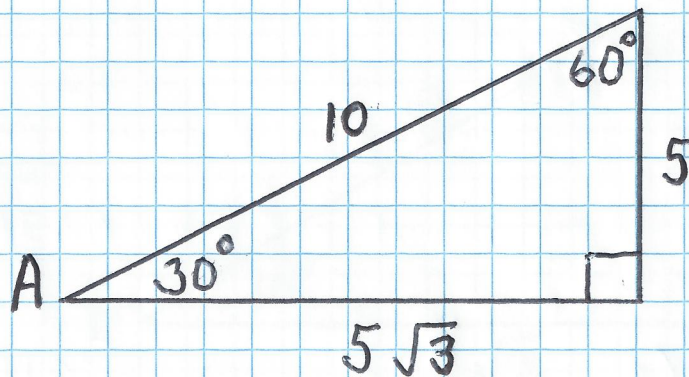
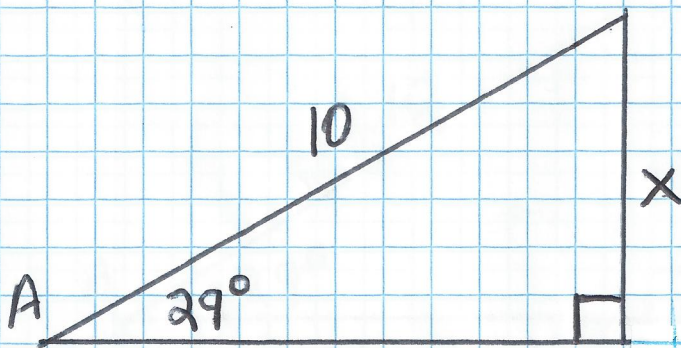


RIGHT TRIANGLE TRIGONOMETRY



$$\sin \phi = \frac{\text{OPPOSITE}}{\text{HYPOTENUSE}}$$

$$\sin 30^\circ = \frac{5}{10}$$



$$\sin 29 = \frac{x}{10}$$

$$0.4848 = \frac{x}{10}$$

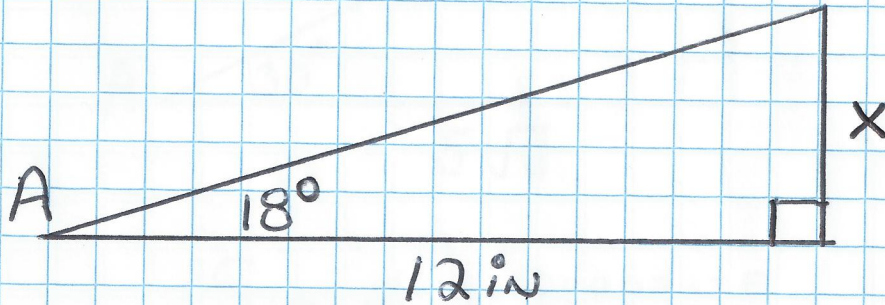
$$x = 4.85$$

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

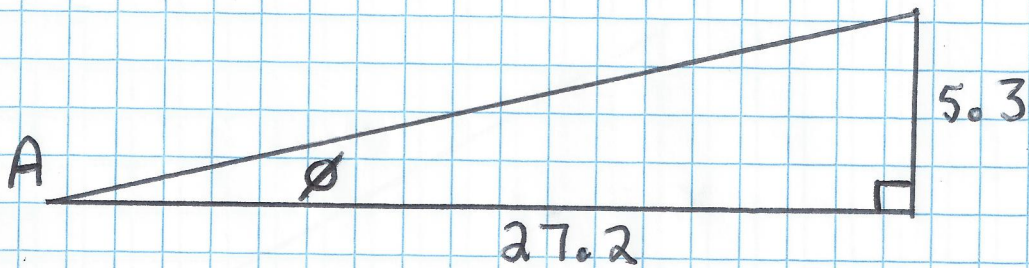
$$\cos \phi = \frac{\text{adj}}{\text{hyp}}$$

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

SOH CAHTOA



$$\tan 18^\circ = \frac{x}{12} \quad x = 3.90$$



$$\tan \phi = \frac{5.3}{27.2} \quad \phi \approx 11.03^\circ$$