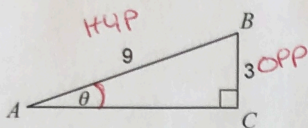


## Trig - Finding Angles NOTES SOH CAH TOA

Date \_\_\_\_\_ Period \_\_\_\_\_

Find the measure of each angle indicated. Round to the nearest tenth.

1)



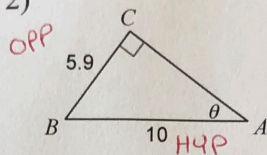
$$\sin \theta = \frac{\text{OPP}}{\text{HYP}}$$

$$\sin \theta = \frac{3}{9}$$

$$\theta = \sin^{-1}\left(\frac{3}{9}\right)$$

$$\theta = 19.47^\circ$$

2)



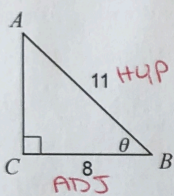
$$\sin \theta = \frac{\text{OPP}}{\text{HYP}}$$

$$\sin \theta = \frac{5.9}{10}$$

$$\theta = \sin^{-1}\left(\frac{5.9}{10}\right)$$

$$\theta = 36.16^\circ$$

3)



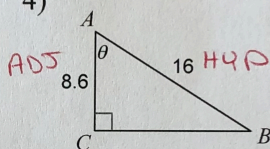
$$\cos \theta = \frac{\text{ADJ}}{\text{HYP}}$$

$$\cos \theta = \frac{8}{11}$$

$$\theta = \cos^{-1}\left(\frac{8}{11}\right)$$

$$\theta = 43.34^\circ$$

4)



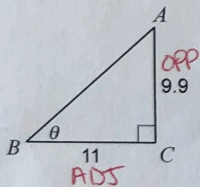
$$\cos \theta = \frac{\text{ADJ}}{\text{HYP}}$$

$$\cos \theta = \frac{8.6}{16}$$

$$\theta = \cos^{-1}\left(\frac{8.6}{16}\right)$$

$$\theta = 57.49^\circ$$

5)



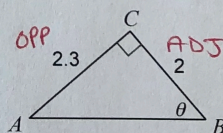
$$\tan \theta = \frac{\text{OPP}}{\text{ADJ}}$$

$$\tan \theta = \frac{9.9}{11}$$

$$\theta = \tan^{-1}\left(\frac{9.9}{11}\right)$$

$$\theta = 41.99^\circ$$

6)



$$\tan \theta = \frac{\text{OPP}}{\text{ADJ}}$$

$$\tan \theta = \frac{2.3}{2}$$

$$\theta = \tan^{-1}\left(\frac{2.3}{2}\right)$$

$$\theta = 48.99^\circ$$