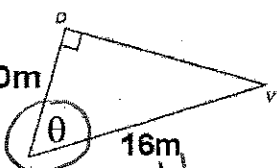


- STEP 1 Label missing and given sides to determine which trig ratio you will set up.
 STEP 2 Set up the trig ratio and solve.

To find missing angles, you will need to take the inverse of the trig ratio

$\sin^{-1} \theta$	2nd	Sin	$\frac{n}{d}$	enter
$\cos^{-1} \theta$	2nd	Cos	$\frac{n}{d}$	enter
$\tan^{-1} \theta$	2nd	Tan	$\frac{n}{d}$	enter

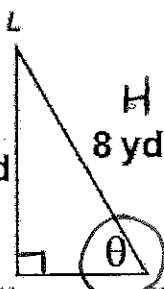
1. 

$$\cos \theta = \frac{A}{H}$$

$$\cos \theta = \frac{10}{16}$$

$$\theta = \cos^{-1}\left(\frac{10}{16}\right)$$

$$\theta = 51.318^\circ$$

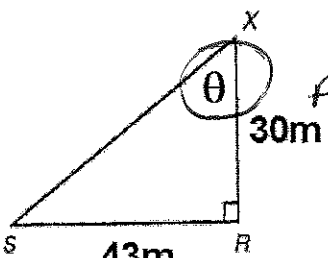
2. 

$$\sin \theta = \frac{O}{H}$$

$$\sin \theta = \frac{4\sqrt{3}}{8}$$

$$\theta = \sin^{-1}\left(\frac{4\sqrt{3}}{8}\right)$$

$$\theta = 60^\circ$$

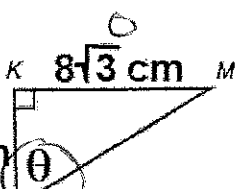
3. 

$$\tan \theta = \frac{O}{A}$$

$$\tan \theta = \frac{43}{30}$$

$$\theta = \tan^{-1}\left(\frac{43}{30}\right)$$

$$\theta = 55.098^\circ$$

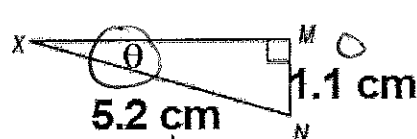
4. 

$$\tan \theta = \frac{O}{A}$$

$$\tan \theta = \frac{8\sqrt{3}}{6\sqrt{2}}$$

$$\theta = \tan^{-1}\left(\frac{8\sqrt{3}}{6\sqrt{2}}\right)$$

$$\theta = 58.518^\circ$$

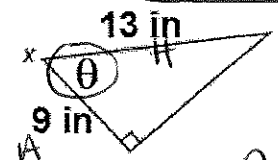
5. 

$$\sin \theta = \frac{O}{H}$$

$$\sin \theta = \frac{1.1}{5.2}$$

$$\theta = \sin^{-1}\left(\frac{1.1}{5.2}\right)$$

$$\theta = 12.213^\circ$$

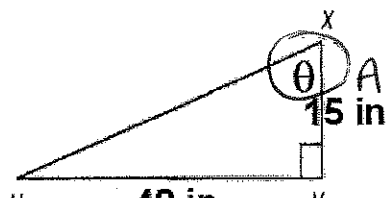
6. 

$$\cos \theta = \frac{A}{H}$$

$$\cos \theta = \frac{9}{13}$$

$$\theta = \cos^{-1}\left(\frac{9}{13}\right)$$

$$\theta = 46.187^\circ$$

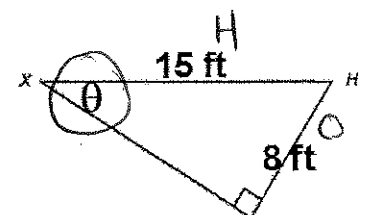
7. 

$$\tan \theta = \frac{A}{O}$$

$$\tan \theta = \frac{49}{15}$$

$$\theta = \tan^{-1}\left(\frac{49}{15}\right)$$

$$\theta = 72.979^\circ$$

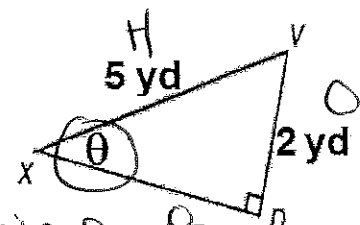
8. 

$$\sin \theta = \frac{O}{H}$$

$$\sin \theta = \frac{8}{15}$$

$$\theta = \sin^{-1}\left(\frac{8}{15}\right)$$

$$\theta = 32.231^\circ$$

9. 

$$\sin \theta = \frac{O}{H}$$

$$\sin \theta = \frac{2}{5}$$

$$\theta = \sin^{-1}\left(\frac{2}{5}\right)$$

$$\theta = 23.578^\circ$$