

Finding Angles using Trigonometry Worksheet

Name: \_\_\_\_\_

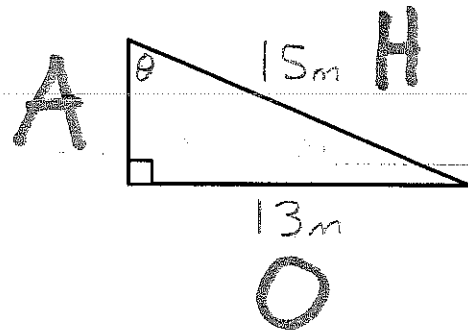
round to nearest degree

1.

a) Label the sides as O, A and H for angle  $\theta$

b)  $\frac{\sin}{\sin, \cos \text{ or } \tan} \theta = \frac{13}{15}$

c)  $\theta = 60^\circ$

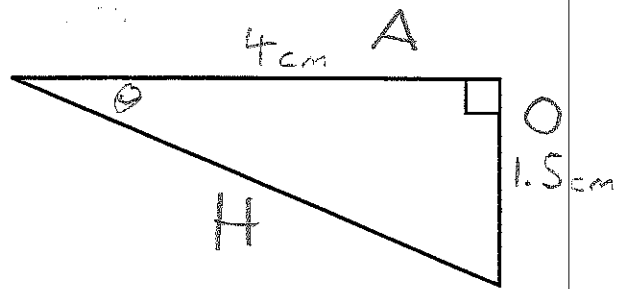


2.

a) Label the sides as O, A and H for angle  $\theta$

b)  $\frac{\tan}{\sin, \cos \text{ or } \tan} \theta = \frac{1.5}{4}$

c)  $\theta = 21^\circ$

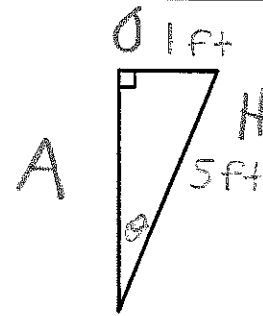


3.

a) Label the sides as O, A and H for angle  $\theta$

b)  $\frac{\sin}{\sin, \cos \text{ or } \tan} \theta = \frac{1}{5}$

c)  $\theta = 12^\circ$

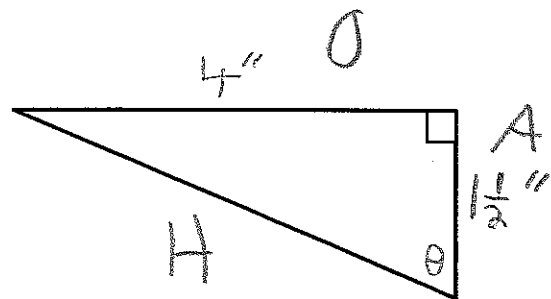


4.

a) Label the sides as O, A and H for angle  $\theta$

b)  $\frac{\tan}{\sin, \cos \text{ or } \tan} \theta = \frac{4}{1.5}$

c)  $\theta = 69^\circ$



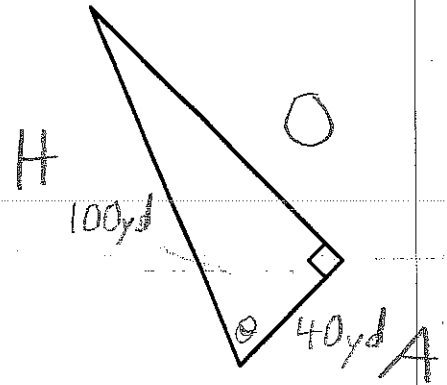
$\sin = \frac{O}{H}$        $\cos = \frac{A}{H}$        $\tan = \frac{O}{A}$

5.

a) Label the sides as O, A and H for angle  $\theta$

b)  $\frac{\cos}{\text{sin, cos or tan}} \theta = \frac{40}{100}$

c)  $\theta = 66^\circ$

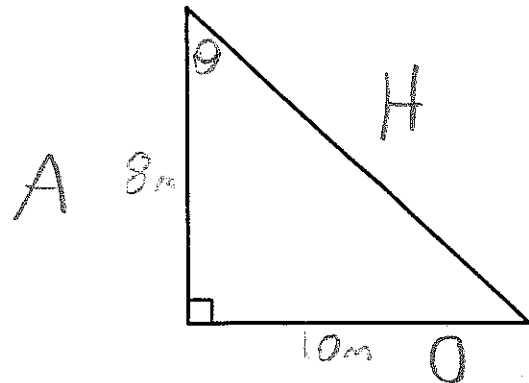


6.

a) Label the sides as O, A and H for angle  $\theta$

b)  $\frac{\tan}{\text{sin, cos or tan}} \theta = \frac{10}{8}$

c)  $\theta = 51^\circ$

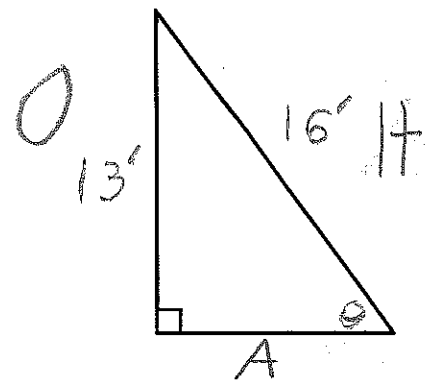


7.

a) Label the sides as O, A and H for angle  $\theta$

b)  $\frac{\sin}{\text{sin, cos or tan}} \theta = \frac{13}{16}$

c)  $\theta = 54^\circ$

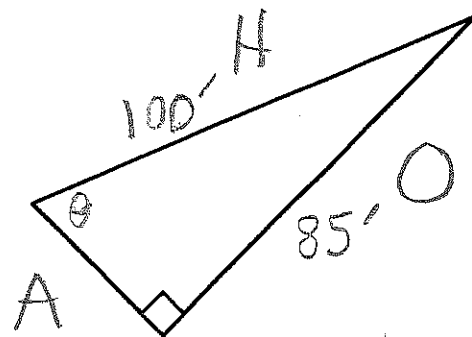


8.

a) Label the sides as O, A and H for angle  $\theta$

b)  $\frac{\sin}{\text{sin, cos or tan}} \theta = \frac{85}{100}$

c)  $\theta = 58^\circ$



$\sin = \frac{O}{H}$      $\cos = \frac{A}{H}$      $\tan = \frac{O}{A}$