

## Right Triangle Trigonometry

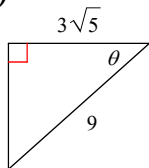
Find the value of each. Round your answers to the nearest ten-thousandth.

1)  $\csc 23^\circ$

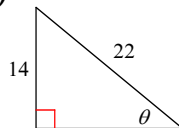
2)  $\tan \frac{5\pi}{36}$

Find the value of the trig function indicated.

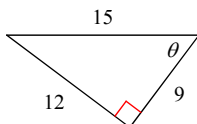
3)  $\csc \theta$



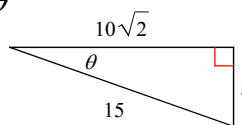
4)  $\tan \theta$



5)  $\tan \theta$



6)  $\sec \theta$



7) Find  $\cot \theta$  if  $\cos \theta = \frac{3}{13}$

8) Find  $\cos \theta$  if  $\sin \theta = \frac{4\sqrt{13}}{17}$

9) Find  $\sec \theta$  if  $\cos \theta = \frac{\sqrt{2}}{10}$

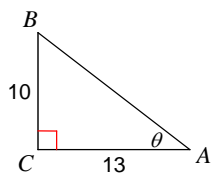
10) Find  $\sin \theta$  if  $\sec \theta = \frac{5}{3}$

11) Find  $\tan \theta$  if  $\csc \theta = \sqrt{10}$

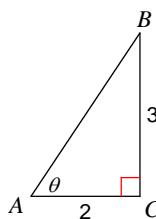
12) Find  $\cos \theta$  if  $\sec \theta = \frac{5}{4}$

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

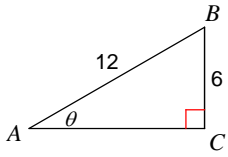
13)



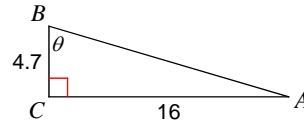
14)



15)

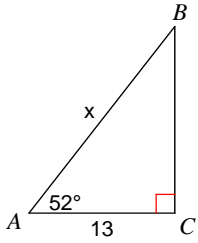


16)

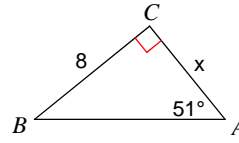


Find the measure of each side indicated. Round to the nearest tenth.

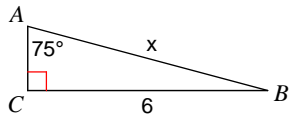
17)



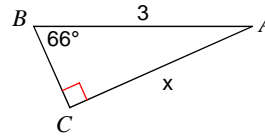
18)



19)

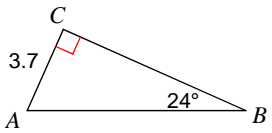


20)

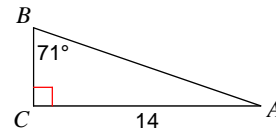


Solve each triangle. Round answers to the nearest tenth.

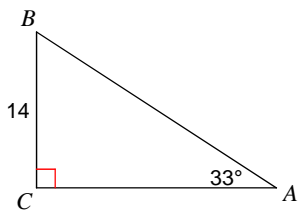
21)



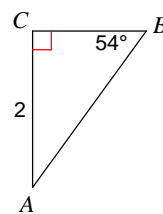
22)



23)



24)



## Right Triangle Trigonometry

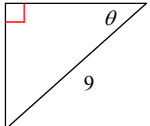
Find the value of each. Round your answers to the nearest ten-thousandth.

1)  $\csc 23^\circ$   
2.5593

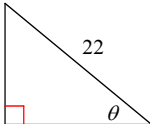
2)  $\tan \frac{5\pi}{36}$   
0.4663

Find the value of the trig function indicated.

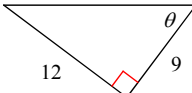
3)  $\csc \theta$   $\frac{3}{2}$



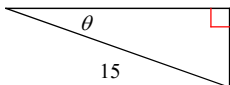
4)  $\tan \theta$   $\frac{7\sqrt{2}}{12}$



5)  $\tan \theta$   $\frac{4}{3}$



6)  $\sec \theta$   $\frac{3\sqrt{2}}{4}$



7) Find  $\cot \theta$  if  $\cos \theta = \frac{3}{13}$   
 $\frac{3\sqrt{10}}{40}$

8) Find  $\cos \theta$  if  $\sin \theta = \frac{4\sqrt{13}}{17}$   
 $\frac{9}{17}$

9) Find  $\sec \theta$  if  $\cos \theta = \frac{\sqrt{2}}{10}$   
 $5\sqrt{2}$

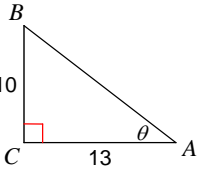
10) Find  $\sin \theta$  if  $\sec \theta = \frac{5}{3}$   
 $\frac{4}{5}$

11) Find  $\tan \theta$  if  $\csc \theta = \sqrt{10}$   
 $\frac{1}{3}$

12) Find  $\cos \theta$  if  $\sec \theta = \frac{5}{4}$   
 $\frac{4}{5}$

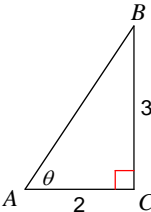
Find the measure of each angle indicated. Round to the nearest tenth.

13)



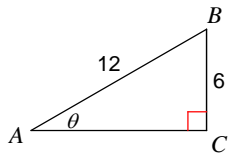
37.6°

14)



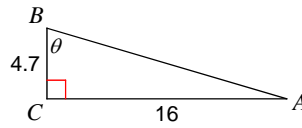
56.3°

15)



$30^\circ$

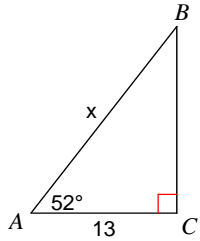
16)



$73.6^\circ$

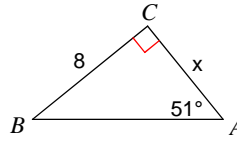
Find the measure of each side indicated. Round to the nearest tenth.

17)



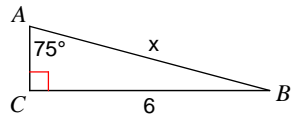
$21.1$

18)



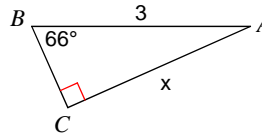
$6.5$

19)



$6.2$

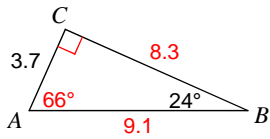
20)



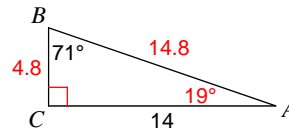
$2.7$

Solve each triangle. Round answers to the nearest tenth.

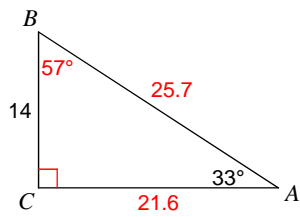
21)



22)



23)



24)

