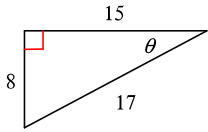


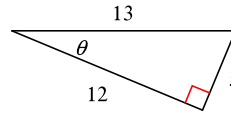
Right Triangle Trig. - Evaluating Trig. Ratios

Find the value of the trig function indicated.

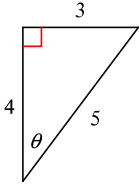
1)  $\sec \theta$



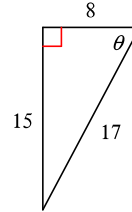
2)  $\sec \theta$



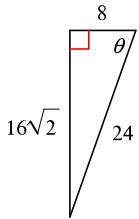
3)  $\cot \theta$



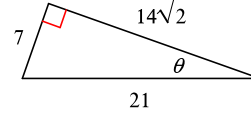
4)  $\csc \theta$



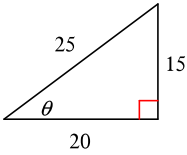
5)  $\csc \theta$



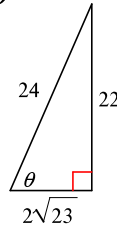
6)  $\cos \theta$



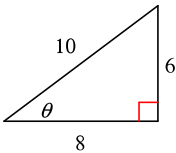
7)  $\cot \theta$



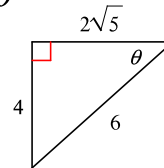
8)  $\tan \theta$



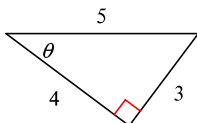
9)  $\tan \theta$



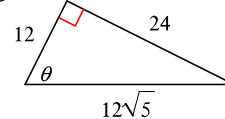
10)  $\cot \theta$



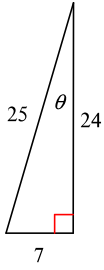
11)  $\tan \theta$



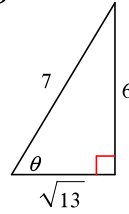
12)  $\cot \theta$



13)  $\tan \theta$



14)  $\sin \theta$



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

15)  $\cos 10^\circ$

16)  $\sin 60^\circ$

17)  $\csc 21^\circ$

18)  $\cos 60^\circ$

19)  $\tan 40^\circ$

20)  $\csc 59^\circ$

21)  $\csc 56^\circ$

22)  $\cot 65^\circ$

23)  $\tan 10^\circ$

24)  $\tan 25^\circ$

**Find the value of the trig function indicated.**

25) Find  $\csc \theta$  if  $\tan \theta = \frac{3}{4}$

26) Find  $\cot \theta$  if  $\sec \theta = 2$

27) Find  $\tan \theta$  if  $\sin \theta = \frac{4}{5}$

28) Find  $\cot \theta$  if  $\sec \theta = \frac{5}{4}$

29) Find  $\sec \theta$  if  $\sin \theta = \frac{3\sqrt{13}}{13}$

30) Find  $\cot \theta$  if  $\sin \theta = \frac{12}{13}$

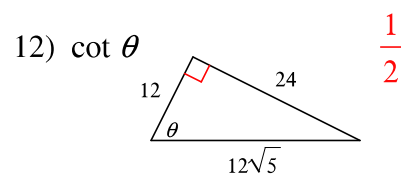
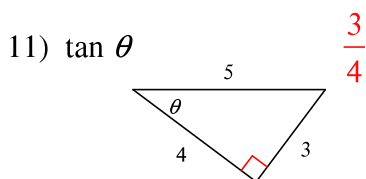
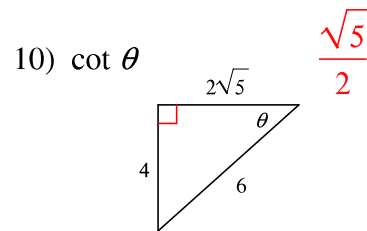
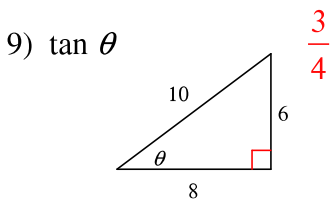
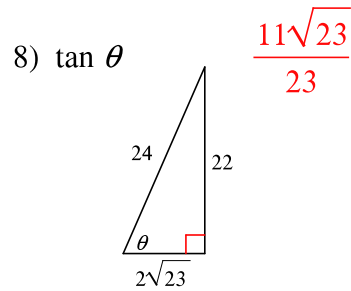
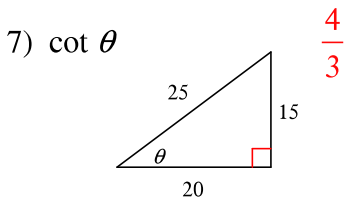
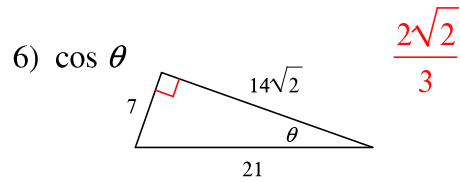
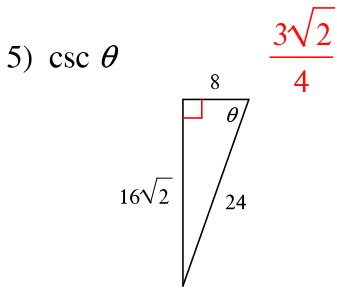
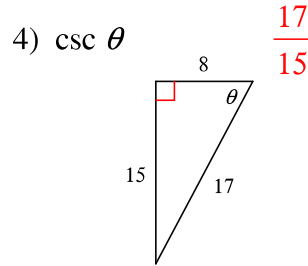
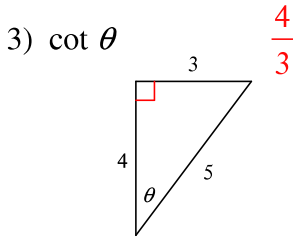
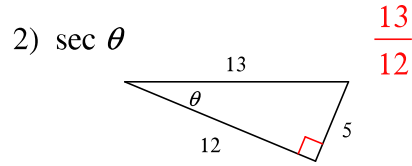
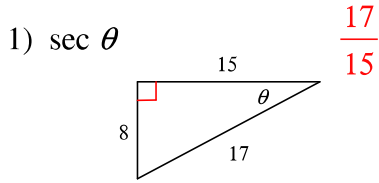
**Critical think questions:**

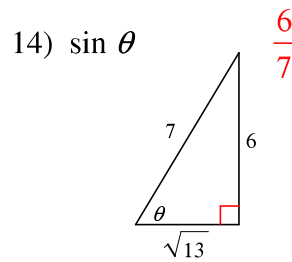
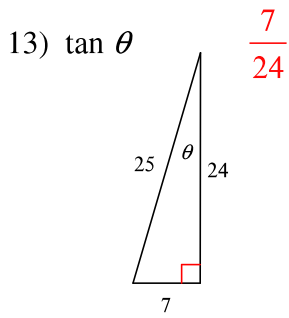
31) Draw a right triangle that has an angle with a tangent of 1.

32) What is the slope of the hypotenuse for #9? How does that compare to  $\tan \theta$ ? Why?

Right Triangle Trig. - Evaluating Trig. Ratios

Find the value of the trig function indicated.





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

15)  $\cos 10^\circ$   
0.9848

16)  $\sin 60^\circ$   
0.8660

17)  $\csc 21^\circ$   
2.7904

18)  $\cos 60^\circ$   
0.5000

19)  $\tan 40^\circ$   
0.8391

20)  $\csc 59^\circ$   
1.1666

21)  $\csc 56^\circ$   
1.2062

22)  $\cot 65^\circ$   
0.4663

23)  $\tan 10^\circ$   
0.1763

24)  $\tan 25^\circ$   
0.4663

**Find the value of the trig function indicated.**

25) Find  $\csc \theta$  if  $\tan \theta = \frac{3}{4} \frac{5}{3}$

26) Find  $\cot \theta$  if  $\sec \theta = 2 \frac{\sqrt{3}}{3}$

27) Find  $\tan \theta$  if  $\sin \theta = \frac{4}{5} \frac{4}{3}$

28) Find  $\cot \theta$  if  $\sec \theta = \frac{5}{4} \frac{4}{3}$

29) Find  $\sec \theta$  if  $\sin \theta = \frac{3\sqrt{13}}{13} \frac{\sqrt{13}}{2}$

30) Find  $\cot \theta$  if  $\sin \theta = \frac{12}{13} \frac{5}{12}$

**Critical think questions:**

31) Draw a right triangle that has an angle with a tangent of 1.

Any right isosceles triangle.

32) What is the slope of the hypotenuse for #9? How does that compare to  $\tan \theta$ ? Why?

$\frac{3}{4}$  It's the same as  $\tan \theta$  since rise/run = opp/adj