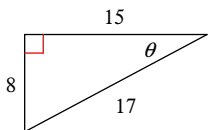


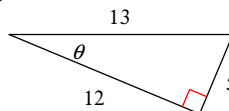
Right Triangle Trig. - Evaluating Trig. Ratios

Find the value of the trig function indicated.

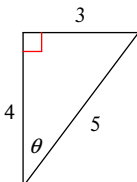
1) $\sec \theta$



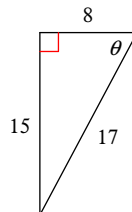
2) $\sec \theta$



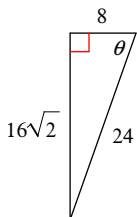
3) $\cot \theta$



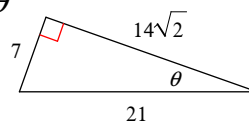
4) $\csc \theta$



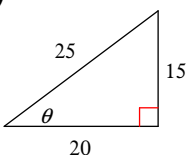
5) $\csc \theta$



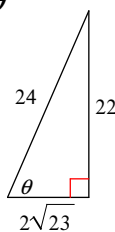
6) $\cos \theta$



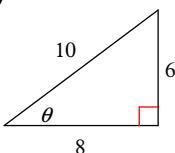
7) $\cot \theta$



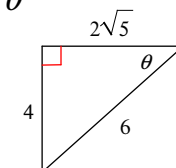
8) $\tan \theta$



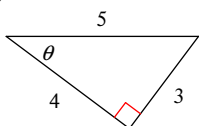
9) $\tan \theta$



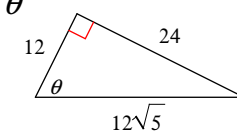
10) $\cot \theta$



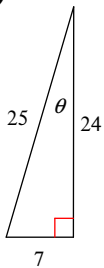
11) $\tan \theta$



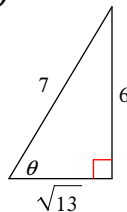
12) $\cot \theta$



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:

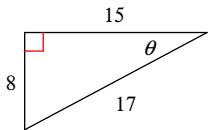
31) Draw a right triangle that has an angle with a tangent of 1.

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

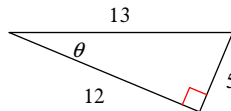
Right Triangle Trig. - Evaluating Trig. Ratios

Find the value of the trig function indicated.

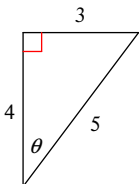
1) $\sec \theta$ $\frac{17}{15}$



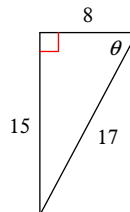
2) $\sec \theta$ $\frac{13}{12}$



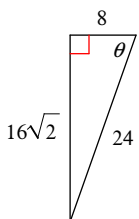
3) $\cot \theta$ $\frac{4}{3}$



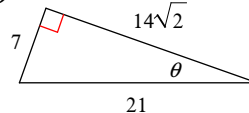
4) $\csc \theta$ $\frac{17}{15}$



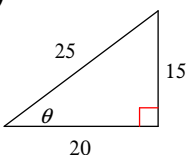
5) $\csc \theta$ $\frac{3\sqrt{2}}{4}$



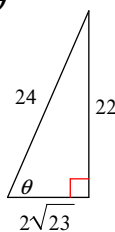
6) $\cos \theta$ $\frac{2\sqrt{2}}{3}$



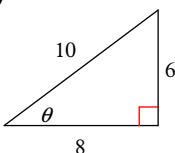
7) $\cot \theta$ $\frac{4}{3}$



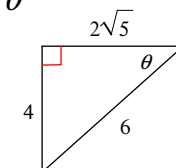
8) $\tan \theta$ $\frac{11\sqrt{23}}{23}$



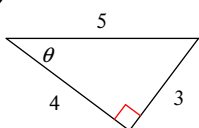
9) $\tan \theta$ $\frac{3}{4}$



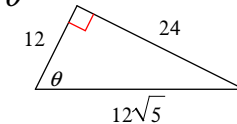
10) $\cot \theta$ $\frac{\sqrt{5}}{2}$

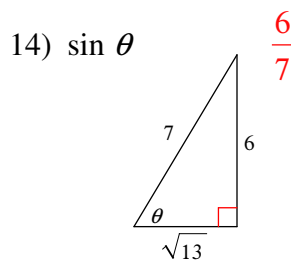
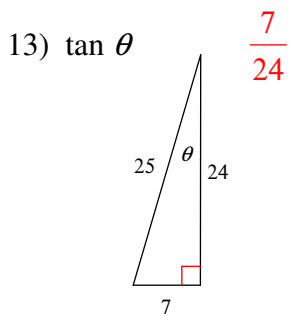


11) $\tan \theta$ $\frac{3}{4}$



12) $\cot \theta$ $\frac{1}{2}$





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