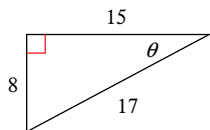


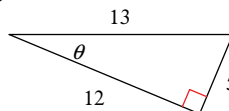
Right Triangle Trig. - Evaluating Trig. Ratios

Find the value of the trig function indicated.

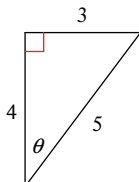
1) $\sec \theta$



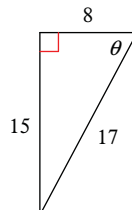
2) $\sec \theta$



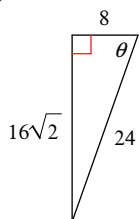
3) $\cot \theta$



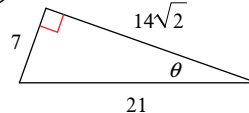
4) $\csc \theta$



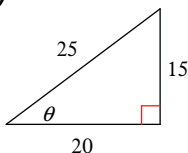
5) $\csc \theta$



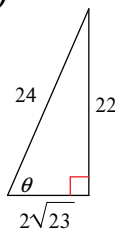
6) $\cos \theta$



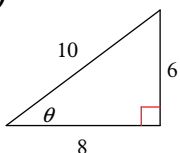
7) $\cot \theta$



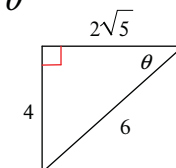
8) $\tan \theta$



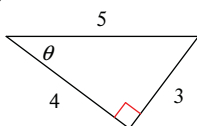
9) $\tan \theta$



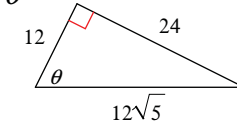
10) $\cot \theta$



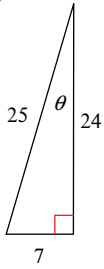
11) $\tan \theta$



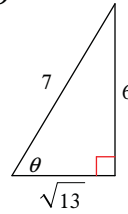
12) $\cot \theta$



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?