

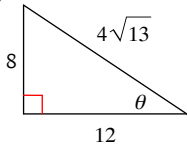
3-3 Finding Sides Using Trig

1) What kind of triangles do trig ratios work for?

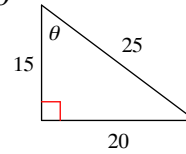
2) What does SOHCAHTOA stand for?

Find the value of the trig function indicated.

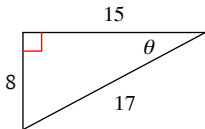
3) $\cos \theta$



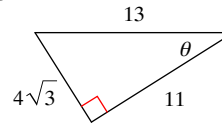
4) $\cos \theta$



5) $\tan \theta$



6) $\cos \theta$



Use a calculator to find each. Round your answers to the nearest ten-thousandth.

7) $\sin 122^\circ$

8) $\cos 120^\circ$

9) $\tan 65^\circ$

10) $\sin 149^\circ$

11) $\cos 275^\circ$

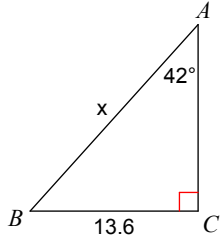
12) $\tan 270^\circ$

13) $\sin 60^\circ$

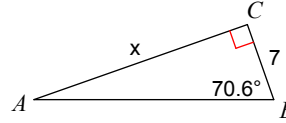
14) $\sin 185^\circ$

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

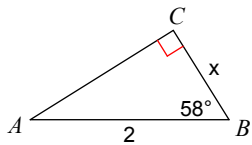
15)



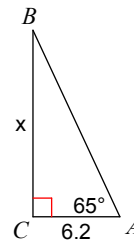
16)



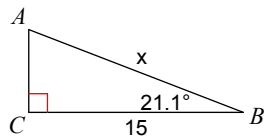
17)



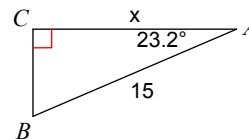
18)



19)



20)



In each problem, angle C is a right angle. Find the side indicated to the nearest tenth.

21) Find b if $c = 9$, $m\angle B = 66^\circ$

22) Find a if $b = 15$, $m\angle A = 38^\circ$

Draw a picture and solve.

23) The angle of elevation from the base of a waterslide to the top is about 13 degrees. The slide extends horizontally (along the ground) about 58.2 meters. How tall is the slide?