

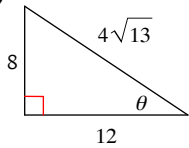
## 9-3 Finding Sides Using Trig

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

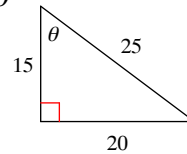
2) What does SOHCAHTOA stand for?

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

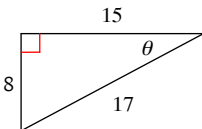
3)  $\cos \theta$



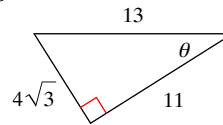
4)  $\cos \theta$



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)  $\cos 275^\circ$

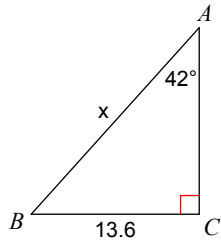
12)  $\tan 270^\circ$

13)  $\sin 60^\circ$

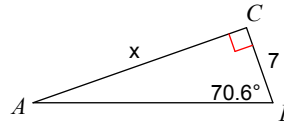
14)  $\sin 185^\circ$

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

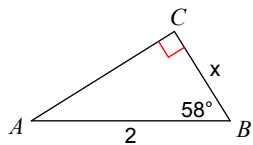
15)



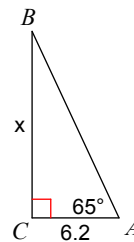
16)



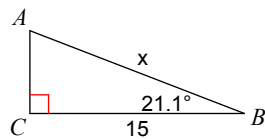
17)



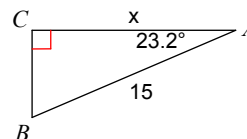
18)



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?