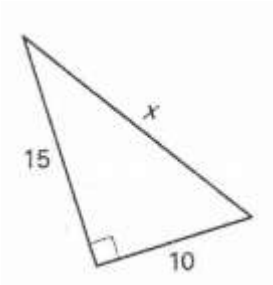
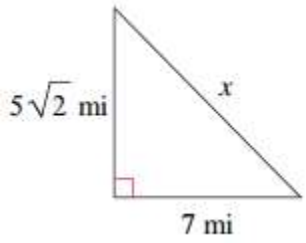
Trig Review: Pythagorean Theorem

Name_____

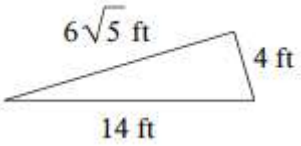
Find the missing length.

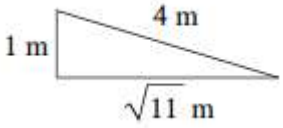
1) 

2) 

3) 

Determine whether the given sides could make a right triangle. (Possible bonus: if the triangle is not right, what kind of triangle is it?)

4) 

5) 

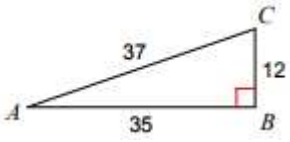
6) 17, 22, 19

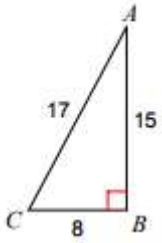
7) 5, 6 $\sqrt{11}$

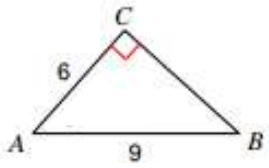
Trig Review: Trig (basics)

Name_____

Find sin A, cos A, and tan A.

8) 

9) 

10) 

11) If $sin\theta = \frac{4}{5}$, find $csc\theta$

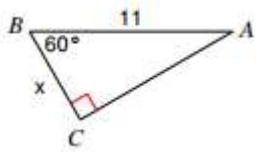
12) If $tan\theta = 4$, find $cot\theta$

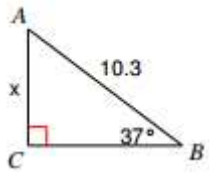
13) If $sec\theta = \frac{2\sqrt{3}}{3}$, find $cos\theta$

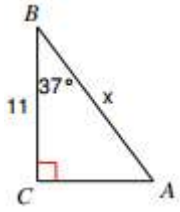
Trig Review: Trig (sides)

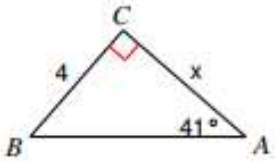
Name_____

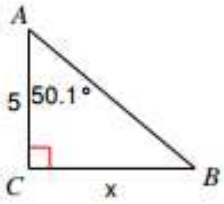
Solve for x. Round to the nearest tenth.

14) 

15) 

16) 

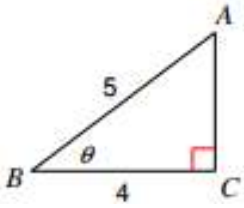
17) 

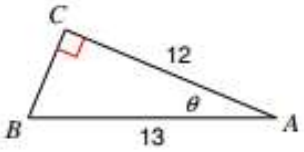
18) 

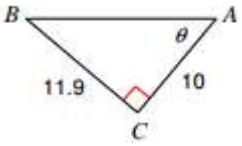
Trig Review: Trig (angles)

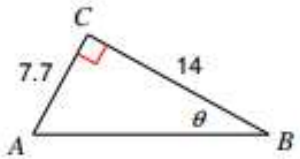
Name_____

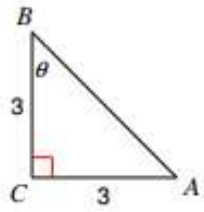
Solve for θ. Round to the nearest whole degree.

19 

20) 

21) 

22) 

23) 

Trig Review: Switching Ratios

Name_____

Given one trig ratio, label a right triangle to find the requested ratio.

24) $\sin\theta = \frac{24}{25}$; find $\cos\theta$.

25) $\tan\theta = \frac{2}{3}$; find $\sin\theta$.

26) $\sec\theta = \frac{\sqrt{7}}{2}$; find $\tan\theta$.

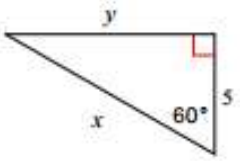
27) $\cot\theta = 2$; find $\csc\theta$.

Trig Review: 30-60-90 Triangles

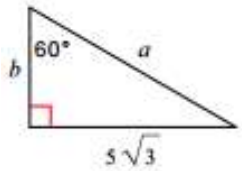
Name_____

Find the missing side lengths and/or angles. Keep answers in simplest radical form.

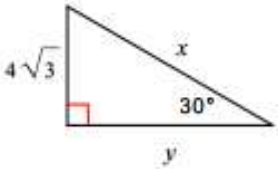
28)



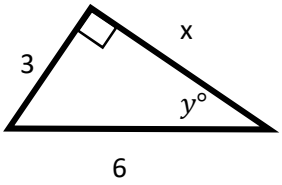
29)



30)



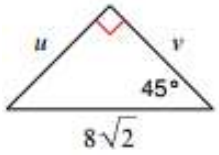
31)

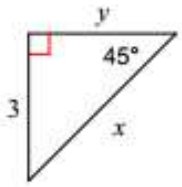


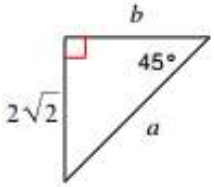
Trig Review: 30-60-90 Triangles

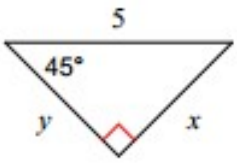
Name_____

Find the missing side lengths. Keep answers in simplest radical form.

32) 

33) 

34) 

35) 

Trig Review: Rationalize Denominators

Name_____

Rationalize the denominators and simplify. Answers should be in simplest radical form.

36) $\frac{3}{\sqrt{5}}$

37) $\frac{\sqrt{3}}{\sqrt{5}}$

38) $\frac{\sqrt{3}}{2\sqrt{6}}$

39) $\frac{5\sqrt{6}}{3\sqrt{15}}$

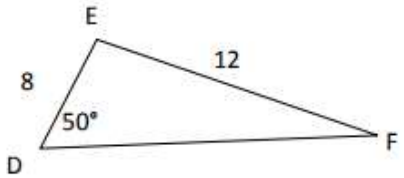
40) $\sqrt{\frac{11}{12}}$

Trig Review: Law of Sines

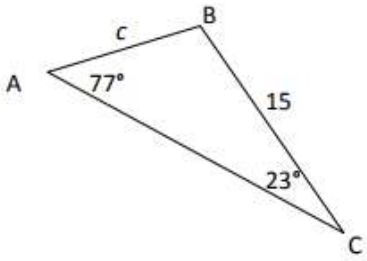
Name_____

Use the Law of Sines to find the requested side or angle.

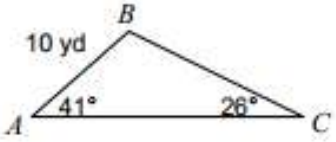
41) Find angle F.



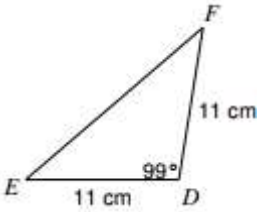
42) Find length c.



43) Find the length of $\overline{AC}$



44) Find the length of $\overline{EF}$

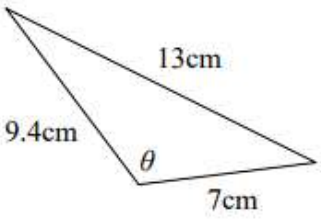


Trig Review: Law of Cosines

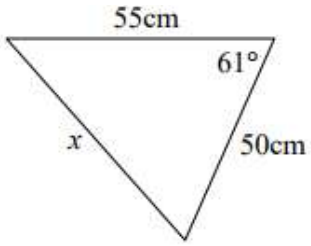
Name_____

Use the Law of Sines to find the requested side or angle.

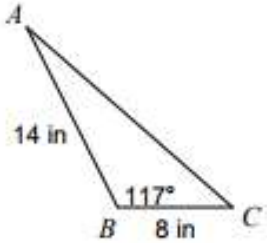
45) Find θ



46) Find *x*



47) Find AC.



48) Find $m\angle A$.
(This may require more than law of cosines.)