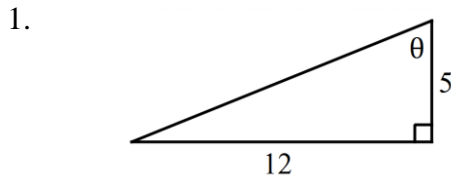


Name: _____

Period: _____

SM2H Review 8.1-8.4

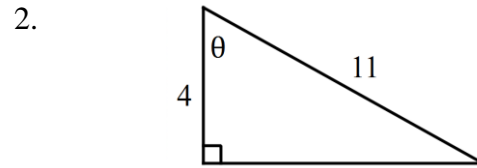
Find the exact values of $\sin\theta$, $\cos\theta$, $\tan\theta$, $\csc\theta$, $\sec\theta$, $\cot\theta$ (no decimals).



$\sin\theta =$ $\csc\theta =$

$\cos\theta =$ $\sec\theta =$

$\tan\theta =$ $\cot\theta =$



$\sin\theta =$ $\csc\theta =$

$\cos\theta =$ $\sec\theta =$

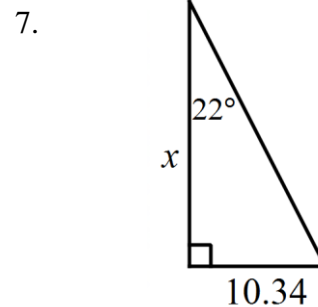
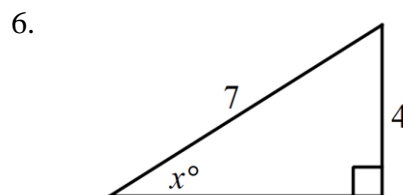
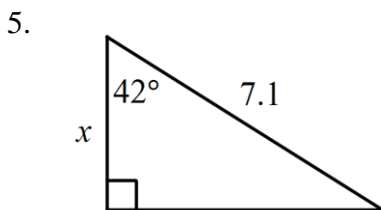
$\tan\theta =$ $\cot\theta =$

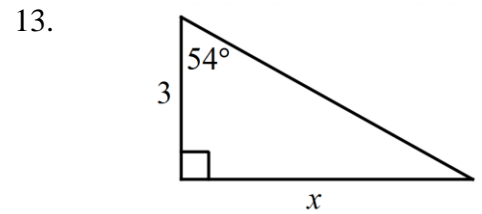
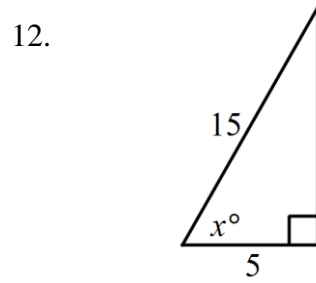
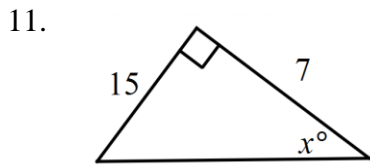
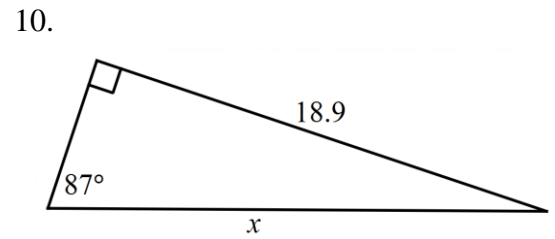
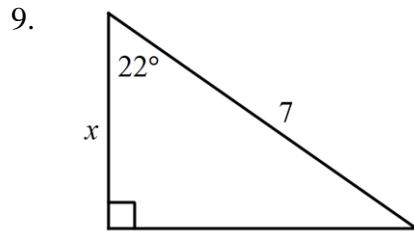
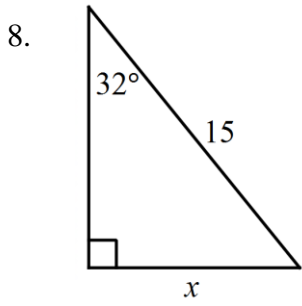
Draw each triangle, then find the asked for ratio (no decimal answers!).

3. Find $\tan\theta$ if $\cos\theta = \frac{10}{13}$

4. Find $\cos\theta$ if $\sin\theta = \frac{2\sqrt{5}}{6}$

Write the correct trigonometric ratio to solve for the value of x. (x can be the value of the angle OR the length of a side). Then find the value of x. Round to the hundredths place.





Solve the triangle. Round answers to the nearest hundredth. Draw a picture FIRST!

14. $a = 11, \angle B = 51^\circ$

15. $a = 5, b = 14$

$m\angle A =$ $a =$

$m\angle B =$ $b =$

$m\angle C =$ $c =$

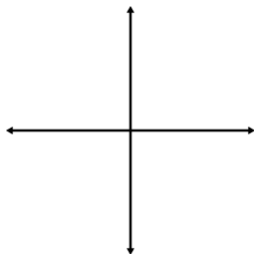
$m\angle A =$ $a =$

$m\angle B =$ $b =$

$m\angle C =$ $c =$

Draw the angle measure in standard position. Identify the reference angle and its measurement.

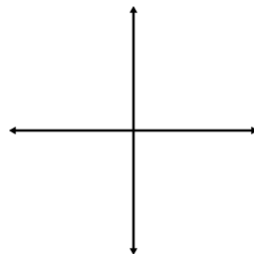
16. -52°



angle measure _____

reference angle _____

17. 223°

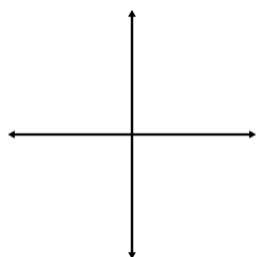


angle measure _____

reference angle _____

Find the sine, cosine, and tangent of the angle made by the following points. Keep answers in simplified radical form. (NO DECIMALS)

18. $(2,4)$

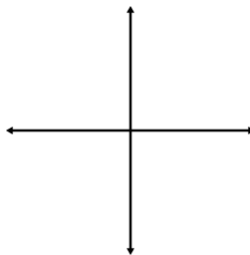


$\sin \theta =$

$\cos \theta =$

$\tan \theta =$

19. $(4,-3)$



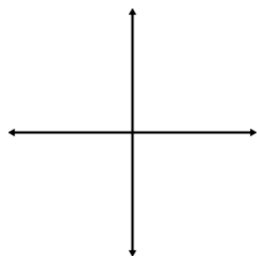
$\sin \theta =$

$\cos \theta =$

$\tan \theta =$

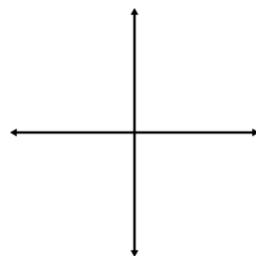
Find the measurement of the STANDARD ANGLE (you will need to first find the reference angle!) that is created by the coordinate point. Draw a picture. Round to the ten-thousandths place.

20. $(-2,7)$



$\theta =$

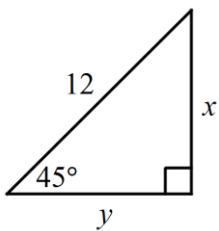
21. $(6,-5)$



$\theta =$

Use special right triangles to solve for x and y . NO DECIMAL ANSWERS ALLOWED!

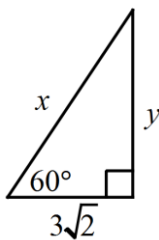
22.



$$x =$$

$$y =$$

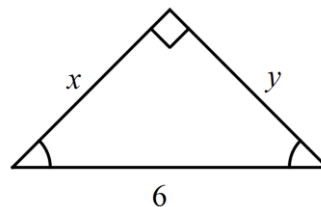
23.



$$x =$$

$$y =$$

24.

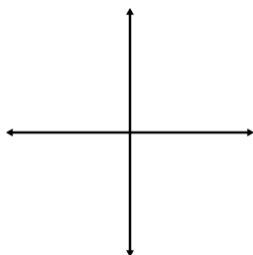


$$x =$$

$$y =$$

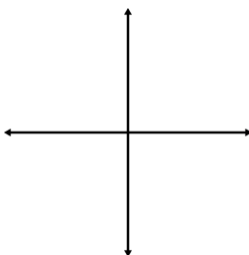
Find the measure of the STANDARD angle (you will first need to find the reference angle using special right triangles). NO DECIMAL ANSWERS ALLOWED!!!

25. $(-4, -4\sqrt{3})$



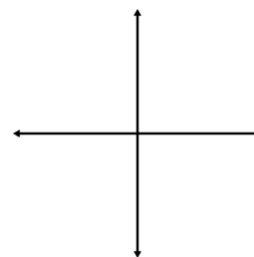
$$\theta =$$

26. $(-1, 1)$



$$\theta =$$

27. $(\frac{\sqrt{3}}{2}, \frac{1}{2})$



$$\theta =$$