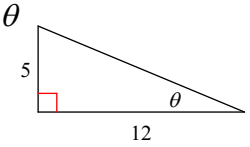
Math-3 Name_____ ID: 1

SM3-A HW #9-8 (Unit 9 Review #1)

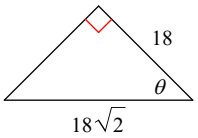
Date_____ Period____

Find the value of the trig function indicated. Do not give these values in decimal form. I want them in fraction form with simplified radicals (if applicable).

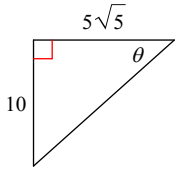
1) sin θ



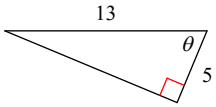
2) cos θ



3) sec θ



4) tan θ



In each triangle ABC, angle C is a right angle, little side 'a' is opposite angle A, etc. Find the value of the trig function indicated (in simplified radical form if applicable).

5) Find $\cos A$ if $a = 16,\ b = 12$

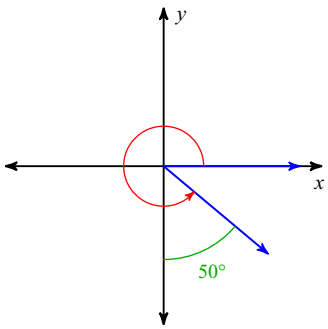
6) Find $\csc A$ if $c = 10,\ a = 9$

7) Find $\csc A$ if $b = 12\sqrt{3},\ c = 24$

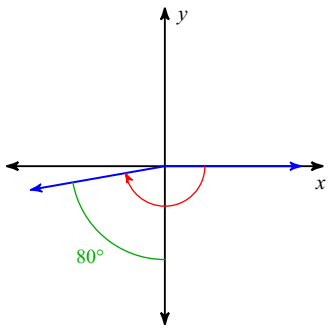
8) Find $\tan A$ if $b = 5,\ a = 10\sqrt{2}$

Find the measure of each:
a) Standard Position angle
b) Reference Angle
c) In which quadrant is the terminal side of the angle?

9)

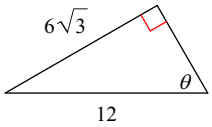


10)

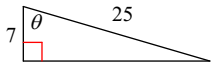


Find the value of the trig function indicated. Do not give these values in decimal form. I want them in fraction form with simplified radicals (if applicable).

11) sec θ

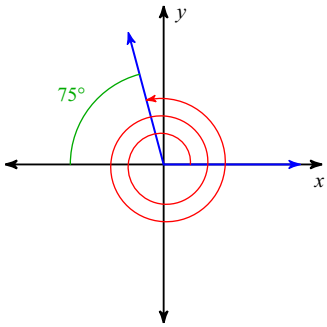


12) cot θ

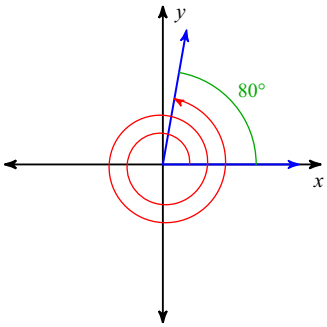


Find the measure of each angle.

13)



14)



Convert each degree measure into radians.

15) -225°

16) 135°

Convert each radian measure into degrees.

17) $-\frac{3\pi}{4}$

18) $\frac{4\pi}{3}$

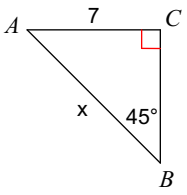
Find a positive and a negative coterminal angle for each given angle.

19) 34°

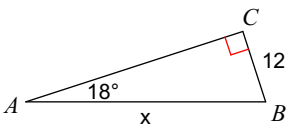
20) $-\frac{13\pi}{4}$

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

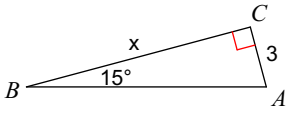
21)



22)



23)



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