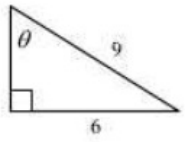
No Work = No Credit

Name: _____
period: _____

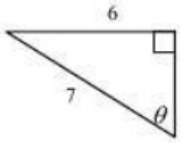
Trigonometry Review

Evaluate the trigonometric function

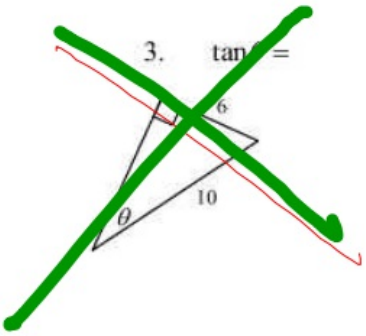
1. $\sin\theta =$



2. $\cos\theta =$

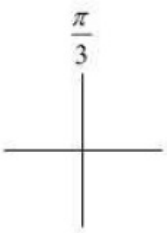


3. $\tan\theta =$

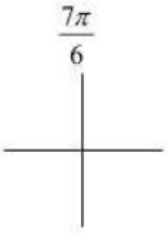


4. Draw each angle.

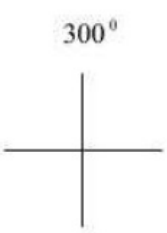
$\frac{\pi}{3}$



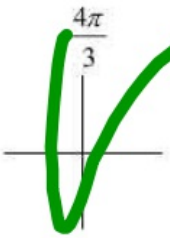
$\frac{7\pi}{6}$



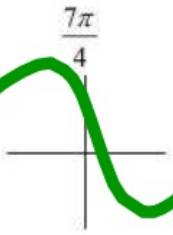
300^0



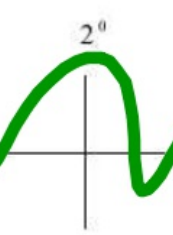
$\frac{4\pi}{3}$



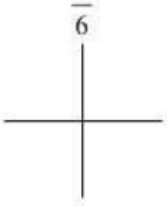
$\frac{7\pi}{4}$



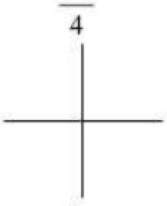
2^0



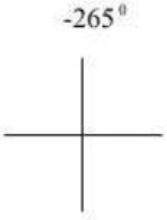
$\frac{\pi}{6}$



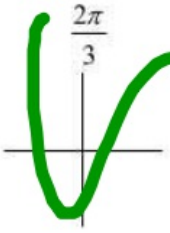
$\frac{9\pi}{4}$



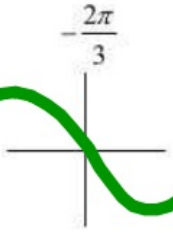
-265^0



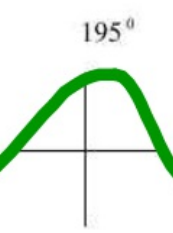
$\frac{2\pi}{3}$



$-\frac{2\pi}{3}$



195^0



5. Complete the table

Radian Measure	Degree Measure	Reference Angle	Quadrant/Axis	X (+, -, 0)	Y (+, -, 0)
$\frac{4\pi}{3}$					
	225°				
$\frac{11\pi}{6}$					
$\frac{3\pi}{4}$					
	-120°				
$\frac{\pi}{6}$					
	240°				
$\frac{5\pi}{6}$					
	210°				
$-\frac{\pi}{3}$					
	315°				
$\frac{\pi}{4}$					
	120°				
$\frac{-5\pi}{4}$					
$\frac{17\pi}{6}$					
	405°				
$\frac{8\pi}{3}$					
0 or 2π		*none*			
	270°	*none*			
	180°	*none*			
$\frac{\pi}{2}$		*none*			

Possible answers for problems **6** and **7**

A. always positive B. always negative

C. equal to 0 D. undefined

6. If $0^\circ < \theta < 90^\circ$, then what is $\sin\theta$?

7. If $\frac{\pi}{2} < \theta < \pi$, then what is $\cos\theta$?

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8. In which quadrants does the tangent ($\tan\theta$) have positive values?

9. In which quadrants does the secant ($\sec\theta$) have negative values?

10. Evaluate of each of the following trigonometric functions.
You must draw the reference triangle ***or*** the point on the unit circle to earn full credit.

$\sin(\frac{2\pi}{3})=$

$\csc(\frac{7\pi}{6})=$

$\sin(300^0)=$

$\cos(\frac{5\pi}{4})=$

$\sec(\frac{7\pi}{4})=$

$\cos(150^0)=$

$\cos(\frac{3\pi}{2})=$

$\csc(\frac{\pi}{2})=$

$\sin(0)=$

11. Given $(0 \le \theta \le 2\pi)$, find both values of θ to make the statement true.

$\cos\theta = -\frac{1}{\sqrt{2}}$, $\theta=$ $\theta=$