Trigonometry Review

- 1. Convert the following to radian angle measures; leave your answer in terms of π , simplify all fractions.
 - a. 270° c. 67°
 - b. 225° d. 359°

2. Convert the following to degrees, round to the nearest tenth of a degree.

a.	π	6	π
	-	ί.	
	4		3

b.
$$\pi$$
 d. $-\frac{7\pi}{6}$

3. Match each point on the unit circle to a point on the graph. Label the points on the graph (A - H).



4. Use the equation below to answer the following questions.

$$y = \frac{1}{3}\cos\left(\frac{1}{4}x\right) + 3$$

- a. Determine the amplitude of the function. How is it related to the equation?
- b. Determine the period of the function. How is it related to the equation?
- c. Determine the midline of the function. How is it related to the equation?
- d. Find the domain of the function.
- e. Find the range of the function.
- f. Graph at least 2 cycles of the function.



- g. Mark all zeros on the graph and list them below.
- h. Mark all maximum values on the graph and list them below.
- i. Mark all minimum values on the graph and list them below.

j. Describe all the transformations from y = cos(x)

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5. Use the graph below to answer the following questions.



a. Trace or highlight one cycle on the graph.

- b. What is the period of the graph?
- c. What is the maximum?
- d. What is the minimum?
- e. What is the amplitude?
- f. Write the equation of the graph.

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6. Complete the table below.

		0	. 0
Quadrant	sin $ heta$	$\cos heta$	$\tan \theta$
3		$-\frac{7}{9}$	
4		8 9	
2	$\frac{2}{3}$		
3	$-\frac{6}{7}$		
2	$\frac{3}{5}$		
1	$\frac{3}{4}$		
2		$-\frac{9}{10}$	