

Precalc Warm Up – 11/18/10

Name: _____

Period: _____

1) Convert the following degree measurements to radians:

a. 180°

b. 360°

c. 30°

d. 120°

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Precalc – Graphing Cosine – 11/18/10

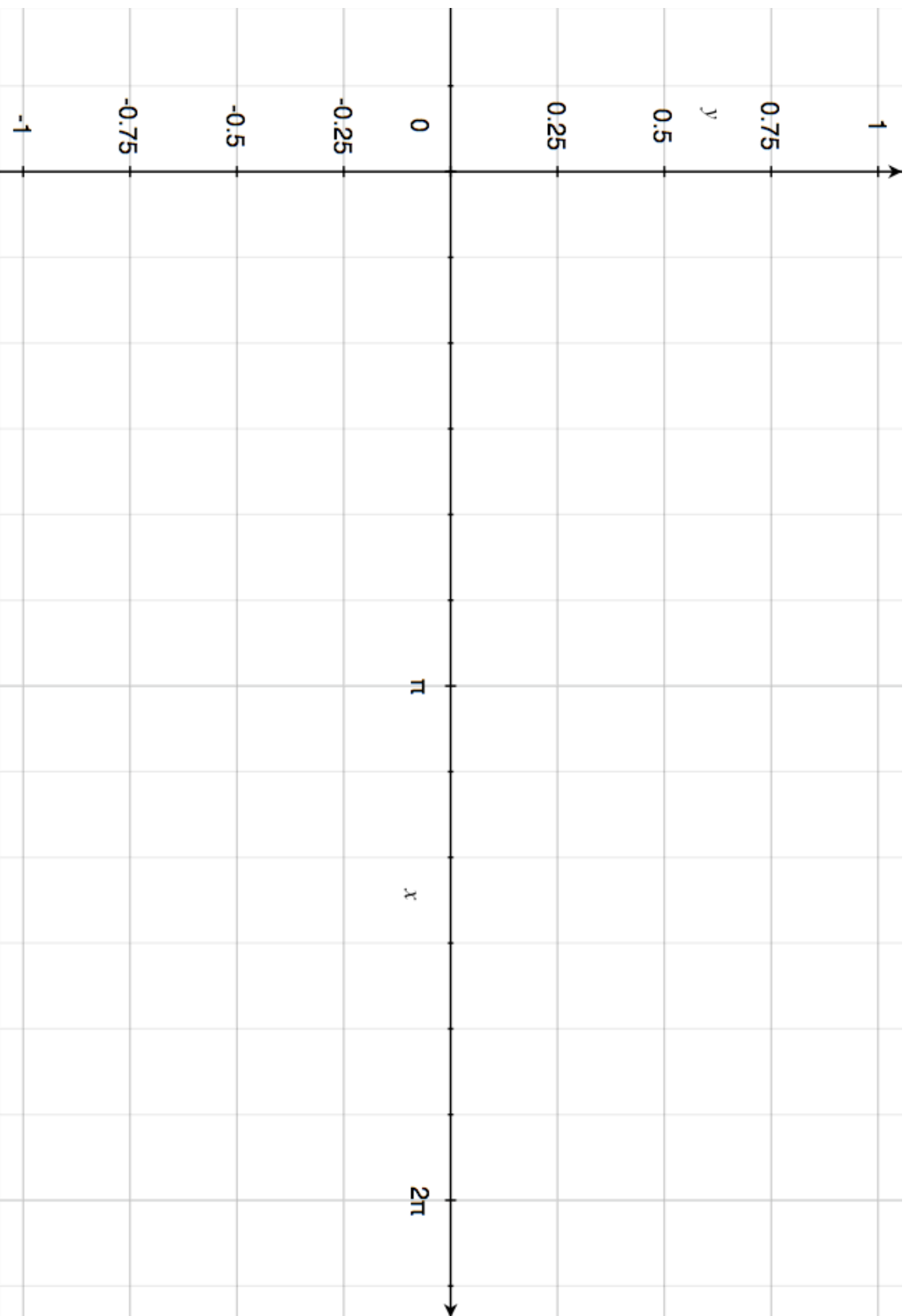
Name: _____

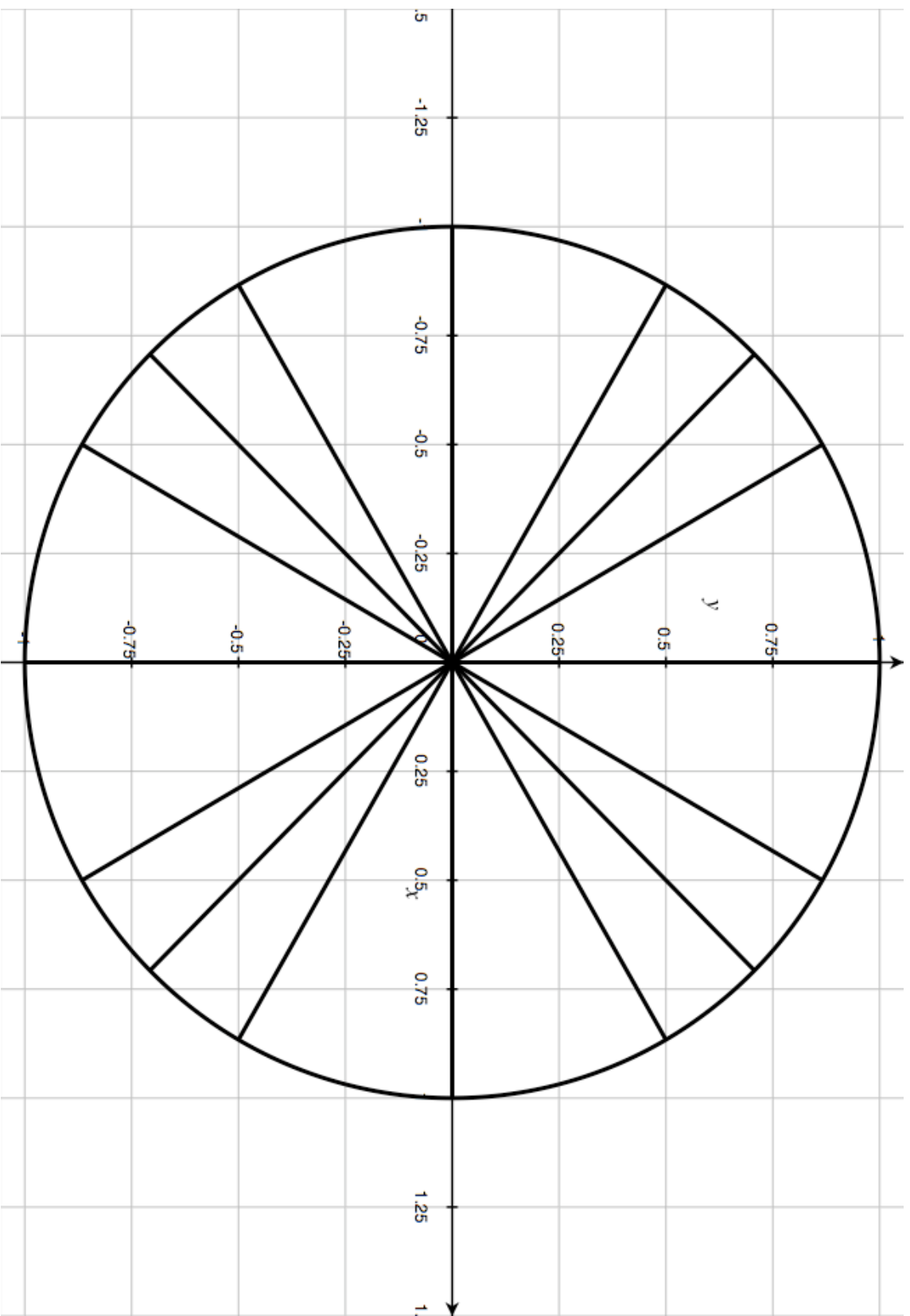
Block: _____

Students will be able to graph the cosine function and will understand the periodic nature of the cosine function

- 1) Fill in the table below with the value of cosine (the x-axis length) for each angle in the unit circle. You may use the unit circle Mr. Monte-Sano gave you to help you.

	θ	$\cos \theta$
First Quadrant	0	
	$\frac{\pi}{6}$	
	$\frac{\pi}{3}$	
Second Quadrant	$\frac{\pi}{2}$	
	$\frac{2\pi}{3}$	
	$\frac{5\pi}{6}$	
Third Quadrant	π	
	$\frac{7\pi}{6}$	
	$\frac{4\pi}{3}$	
Fourth Quadrant	$\frac{3\pi}{2}$	
	$\frac{5\pi}{3}$	
	$\frac{11\pi}{6}$	
	2π	





2) The function that you graphed is $f(x) = \cos \theta$. How would you describe its shape?

3) Compare the shape of $f(x) = \cos \theta$ to the shape of yesterday's graph of $f(x) = \sin \theta$. How are they the same? How are they different

4) Is $f(x) = \cos \theta$ strictly increasing, decreasing or neither?

5) What do you think happens to $f(x) = \sin \theta$ to the right of $\theta = 2\pi$ (as θ increases)?

6) What do you think happens to $f(x) = \sin \theta$ to the left of $\theta = 0$ (as θ decreases)?

Precalc – Exit Slip – 11/18/10

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- 1) Sketch the graph of $f(x) = \cos \theta$.

