

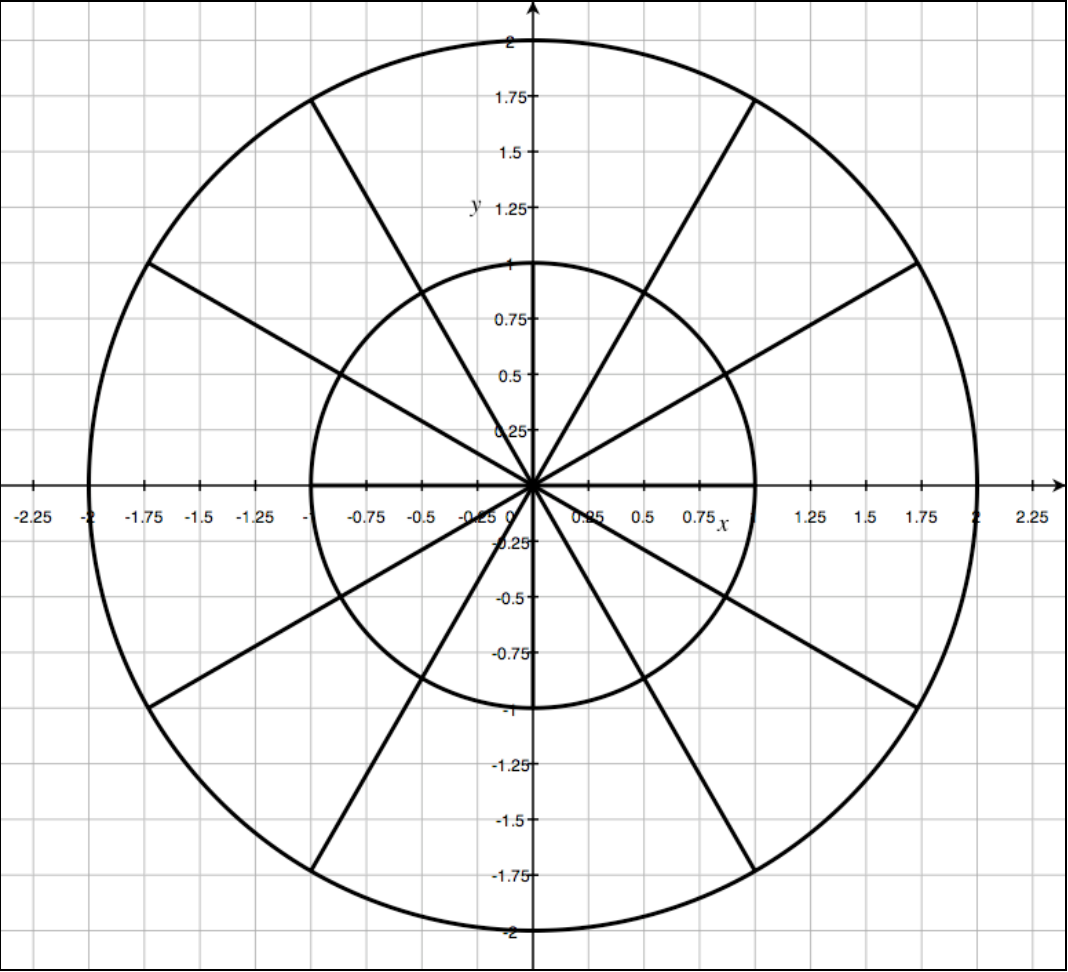
Precalc – Warm Up – 12/6/10

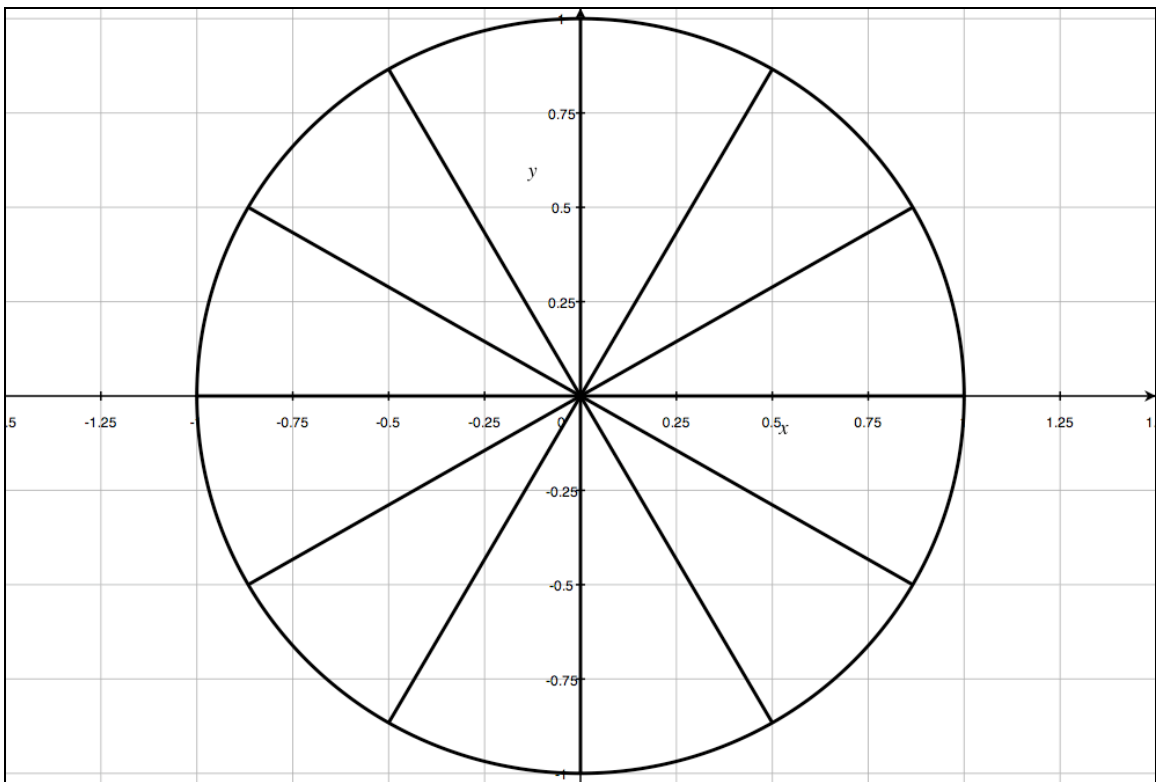
Name: _____

Period: _____

1) Fill out the following table with the values of sine for each angle.

	θ	$\sin \theta$
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	





	$30^\circ \quad \left(\frac{\pi}{6}\right)$	$45^\circ \quad \left(\frac{\pi}{4}\right)$	$60^\circ \quad \left(\frac{\pi}{3}\right)$
$\sin \theta =$	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$
$\cos \theta =$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$
$\tan \theta =$	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$

Precalc – Periodic Functions – 12/6/10

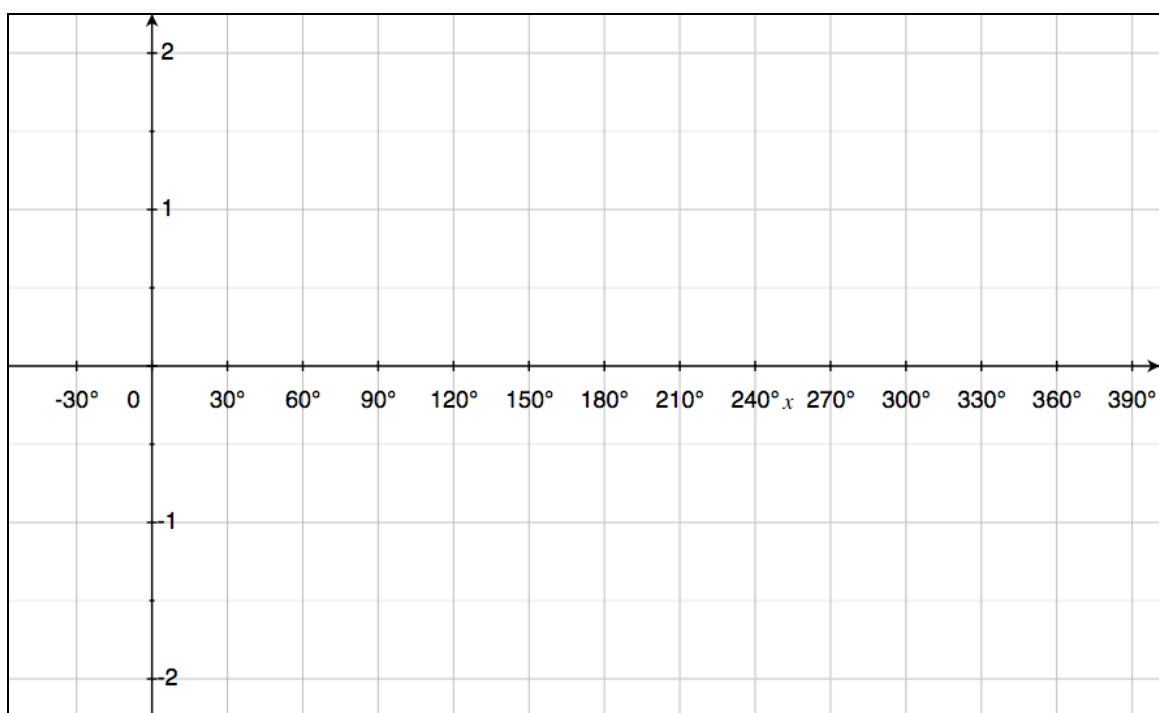
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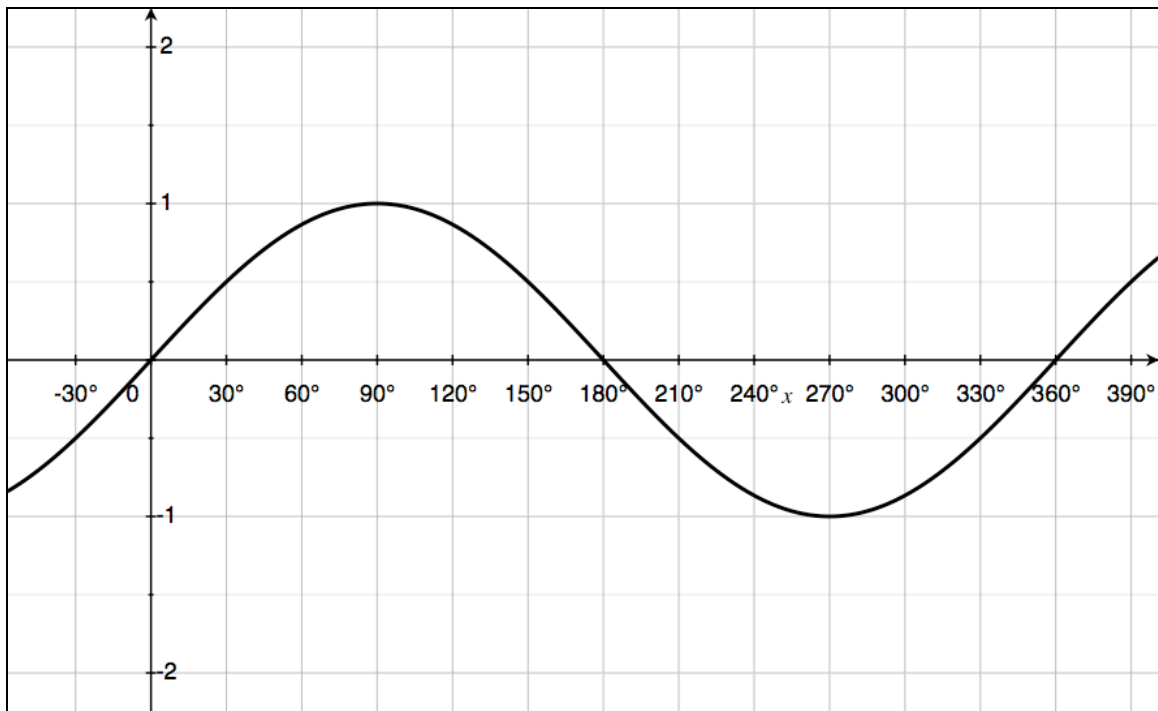
Period: _____

Students will be able to identify the period and amplitude of a periodic function when given a graph of the function.

Use your table from the warm up in order to graph the function

$f(x) = \sin x$ on the graph below.





Notes

What would happen if instead of using a unit circle we used a circle with radius 2? Would the graph of sine change?

Amplitude = 1

Amplitude = 2

Amplitude = 5

Amplitude = 0.5

Amplitude = 1.5

Amplitude = 3

Amplitude = 7

Amplitude = 4

Period = 360

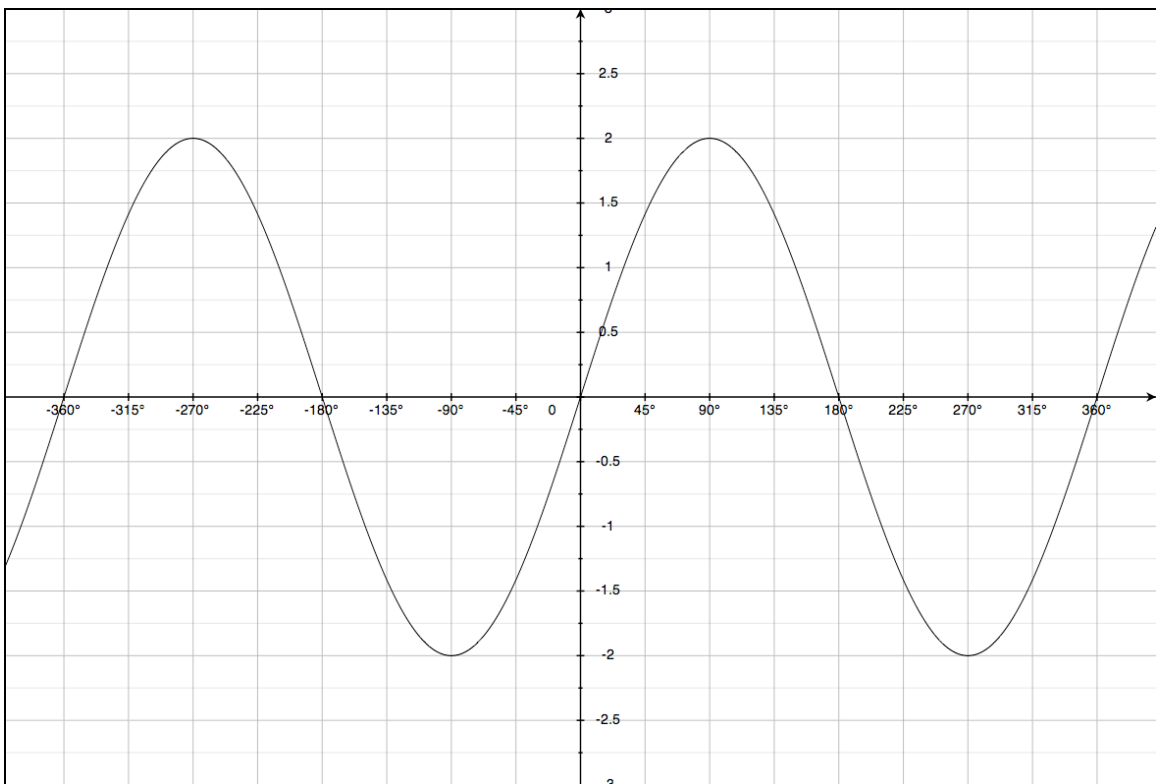
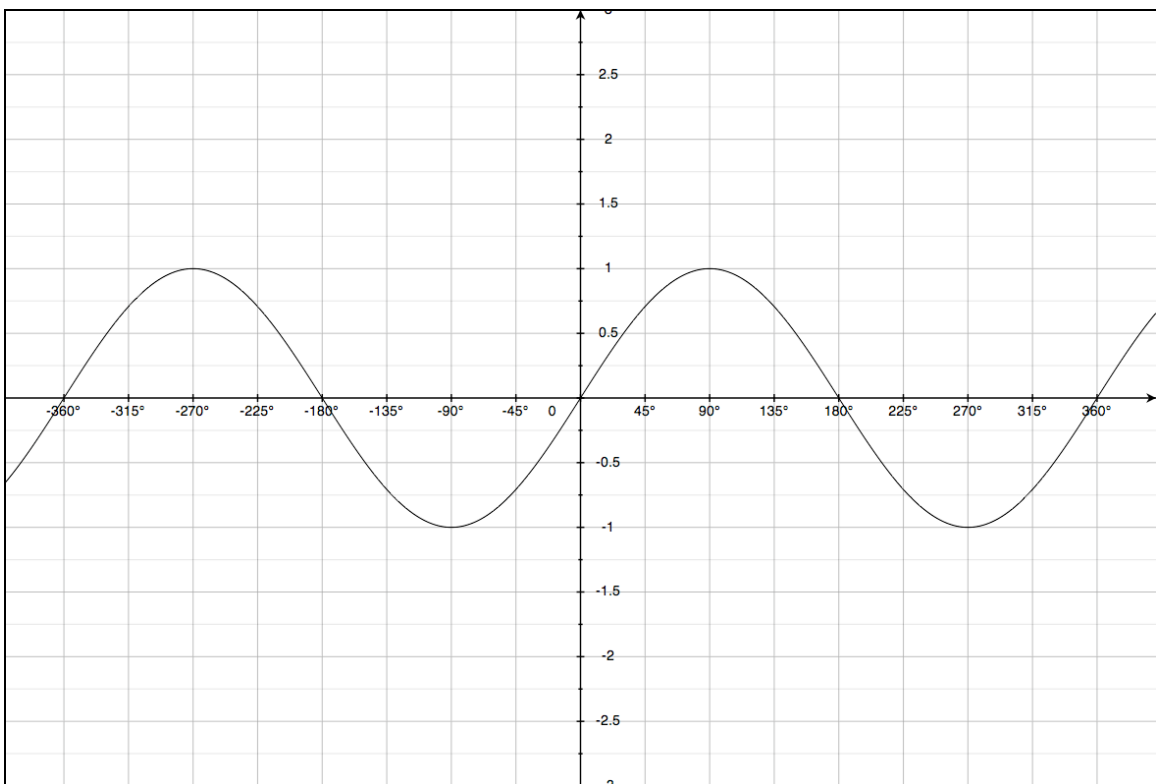
Period = 720

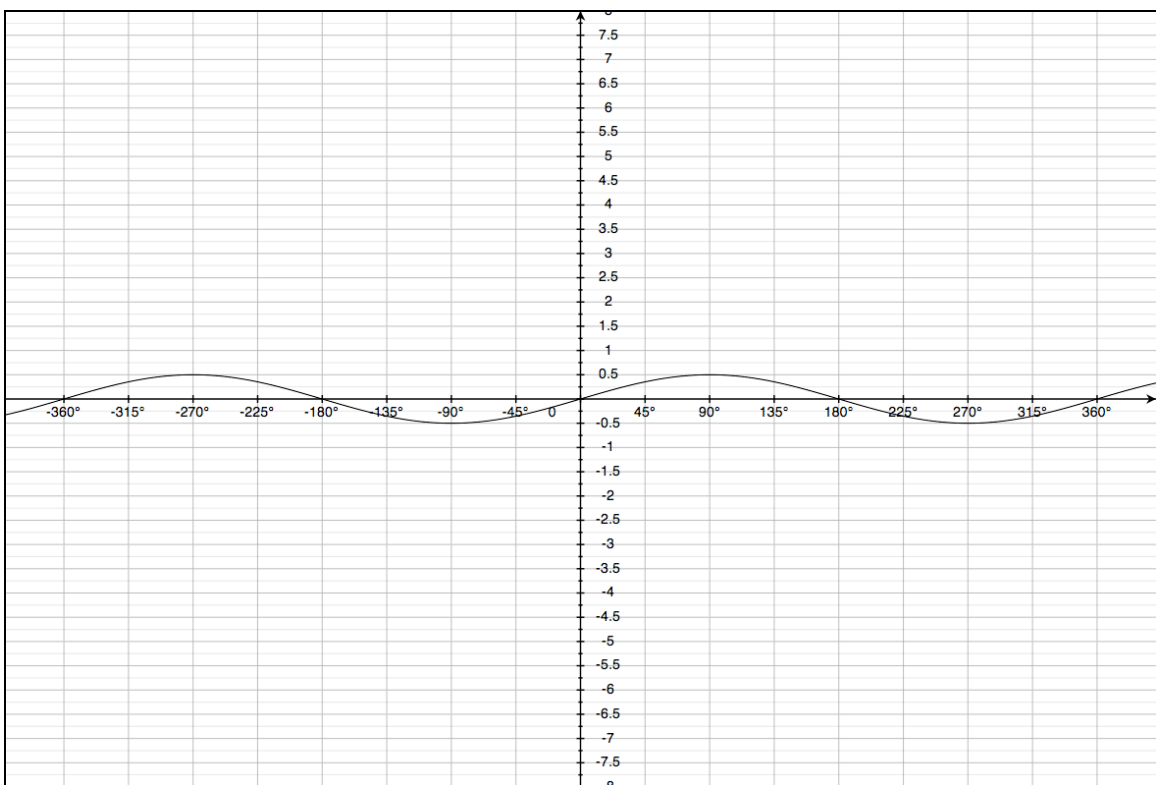
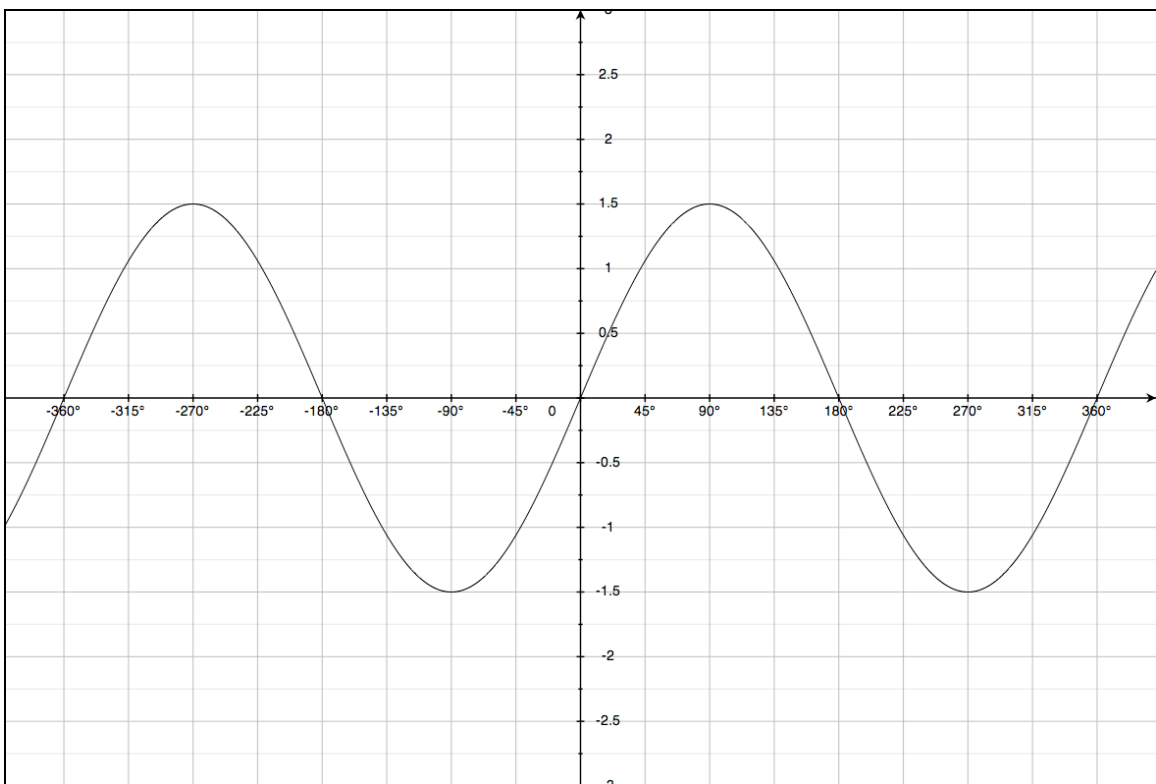
Period = 180

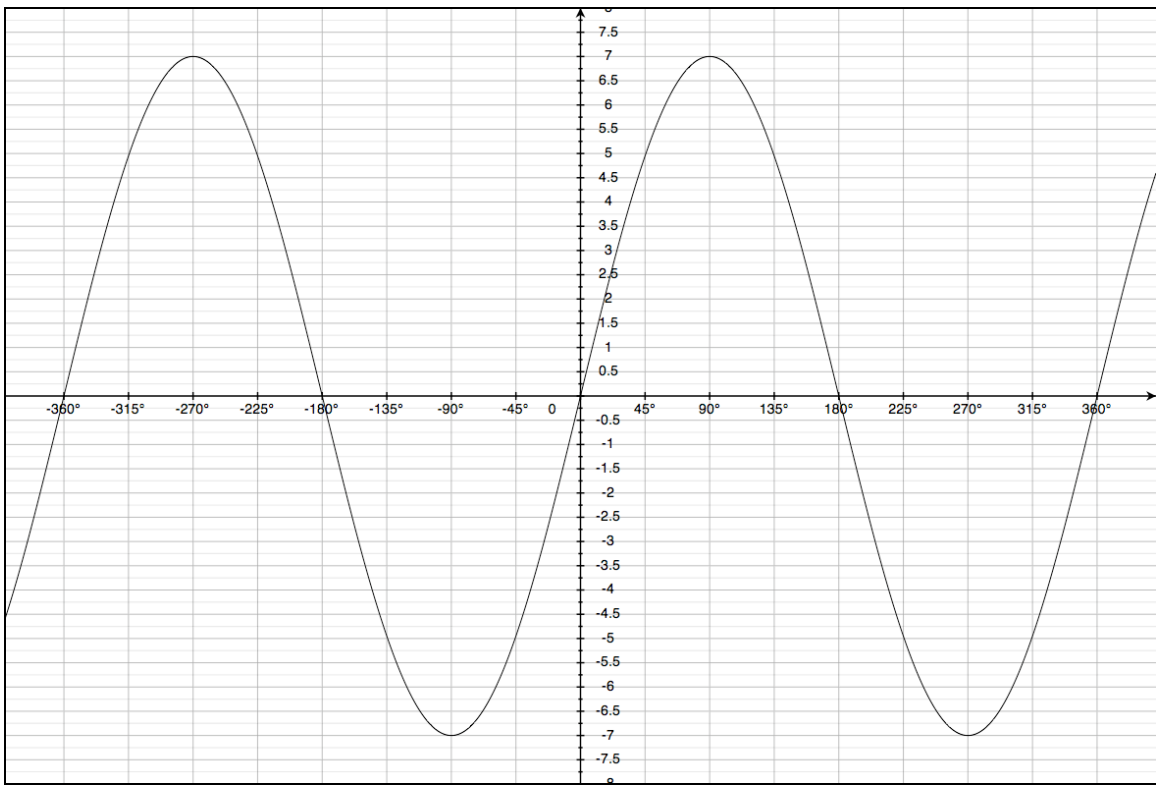
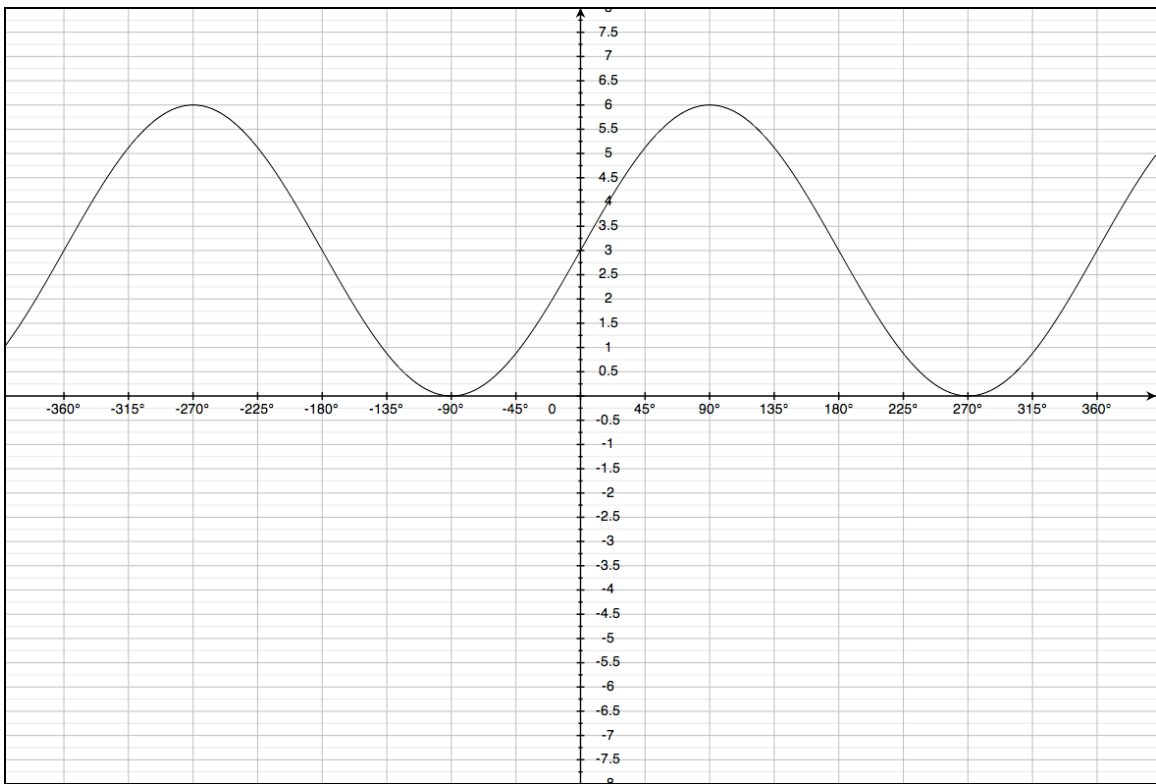
Period = 270

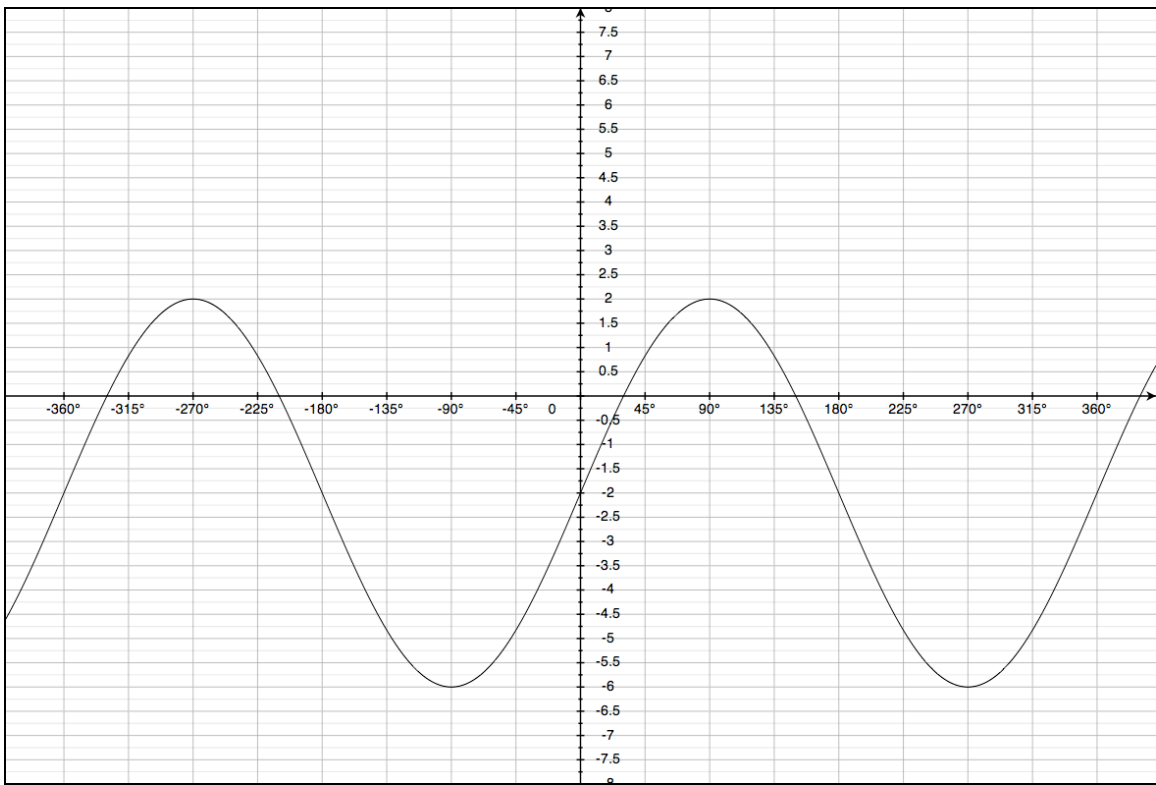
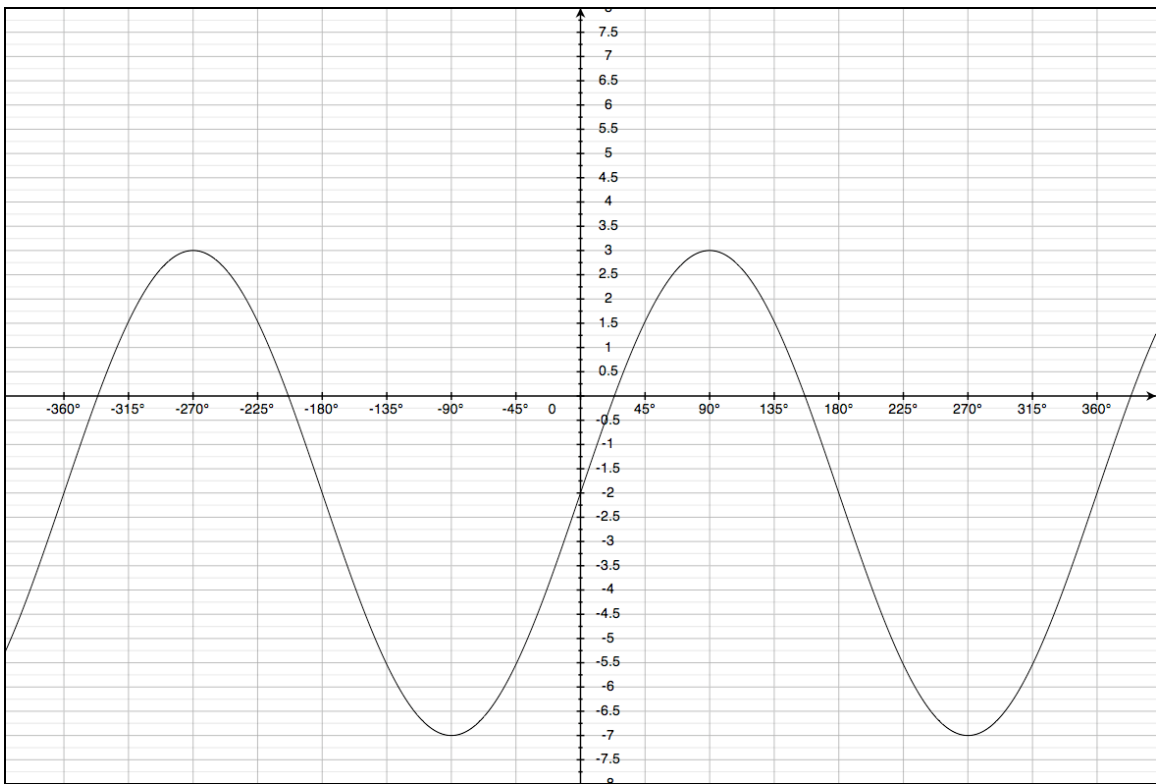
Period = 540

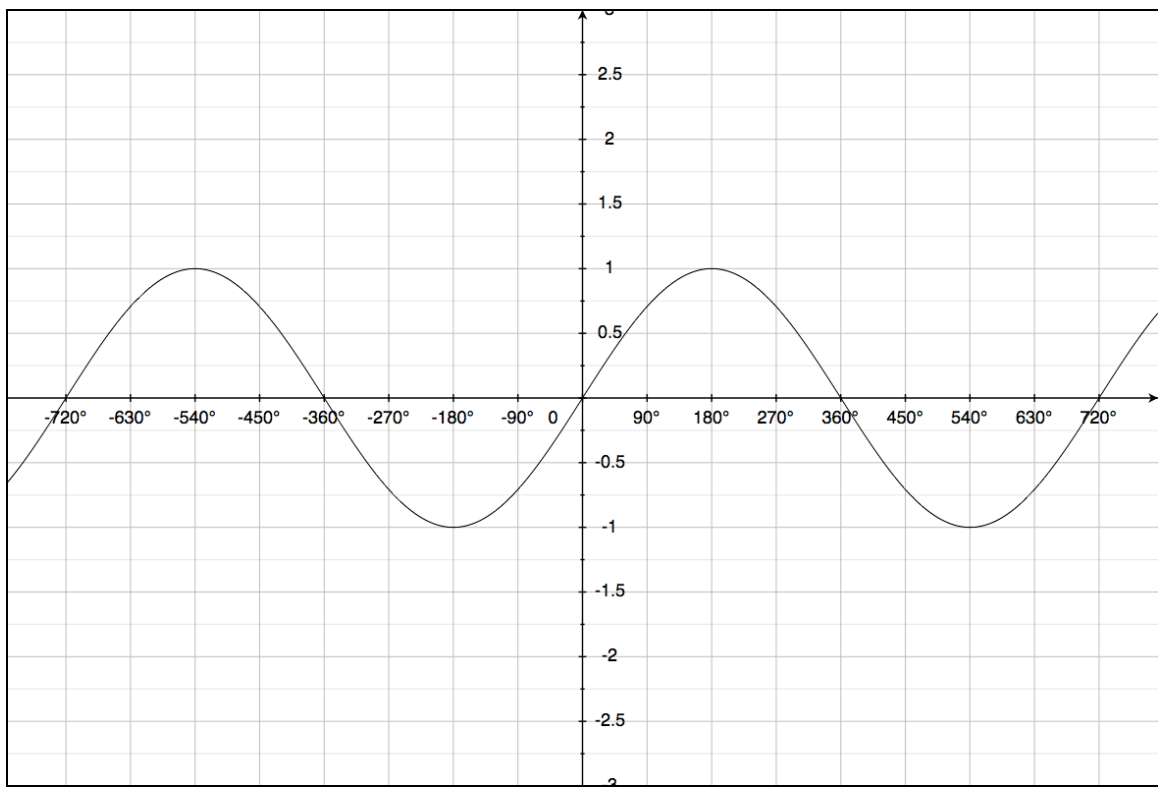
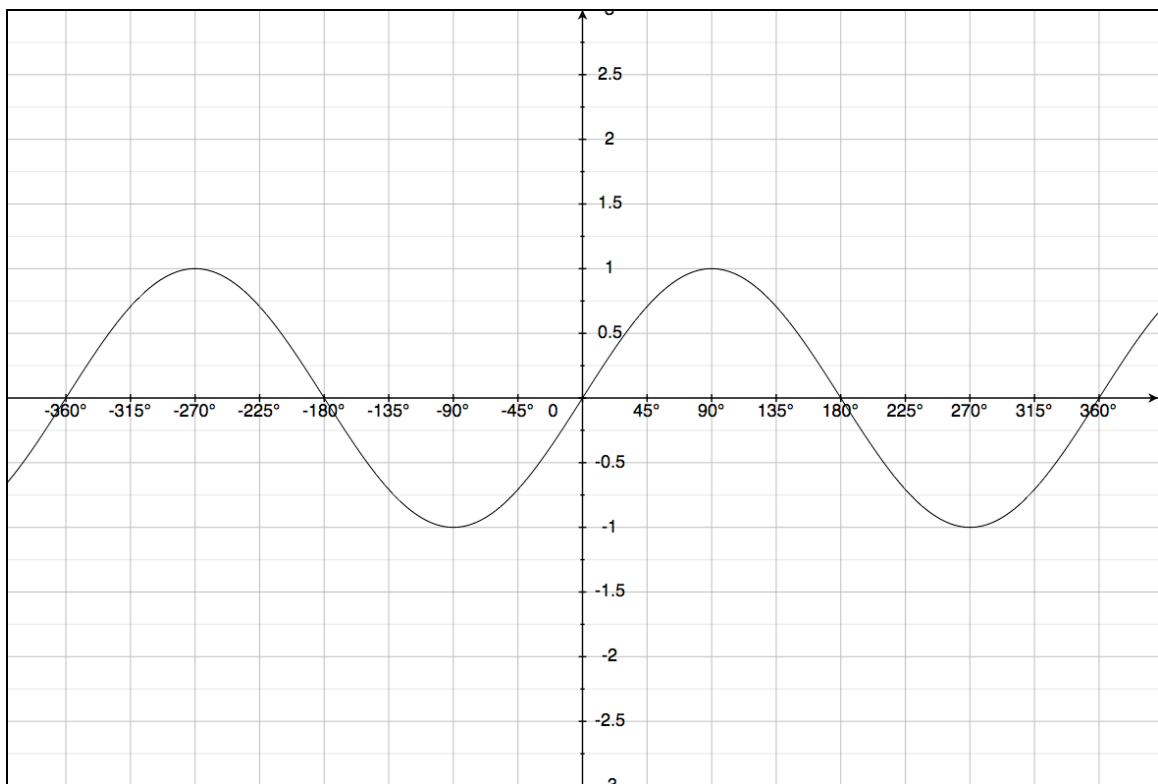
Period = 90

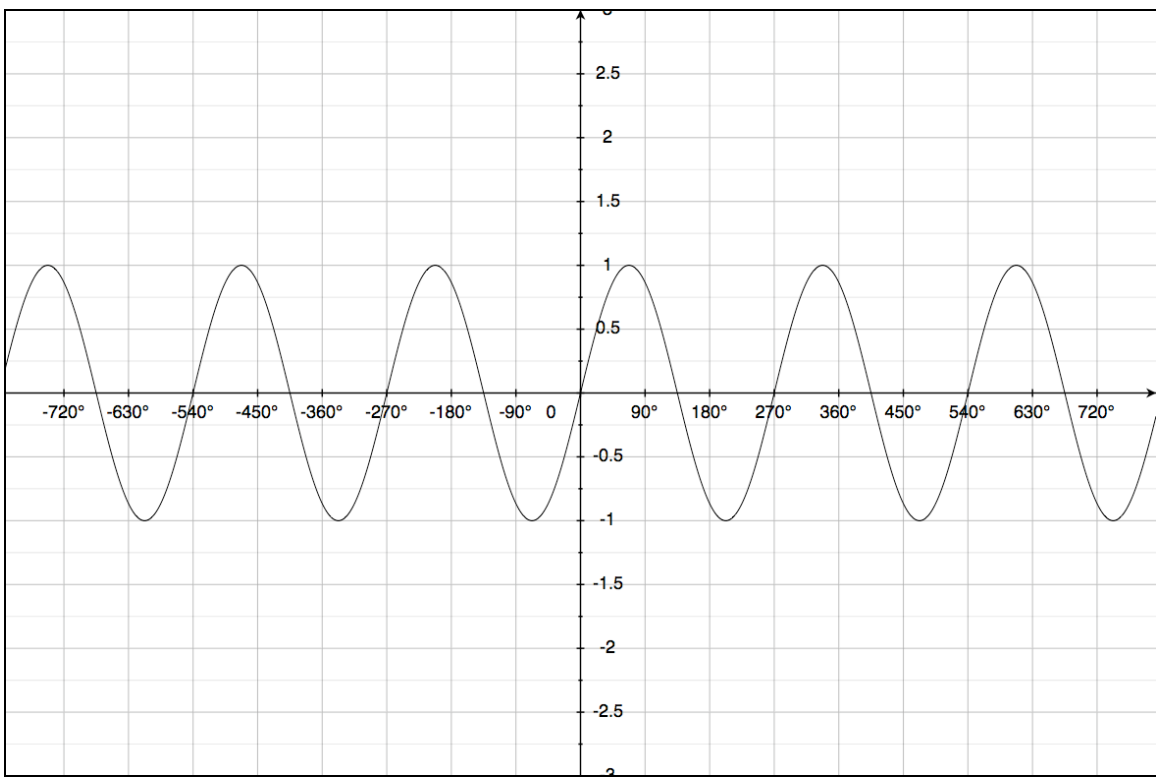
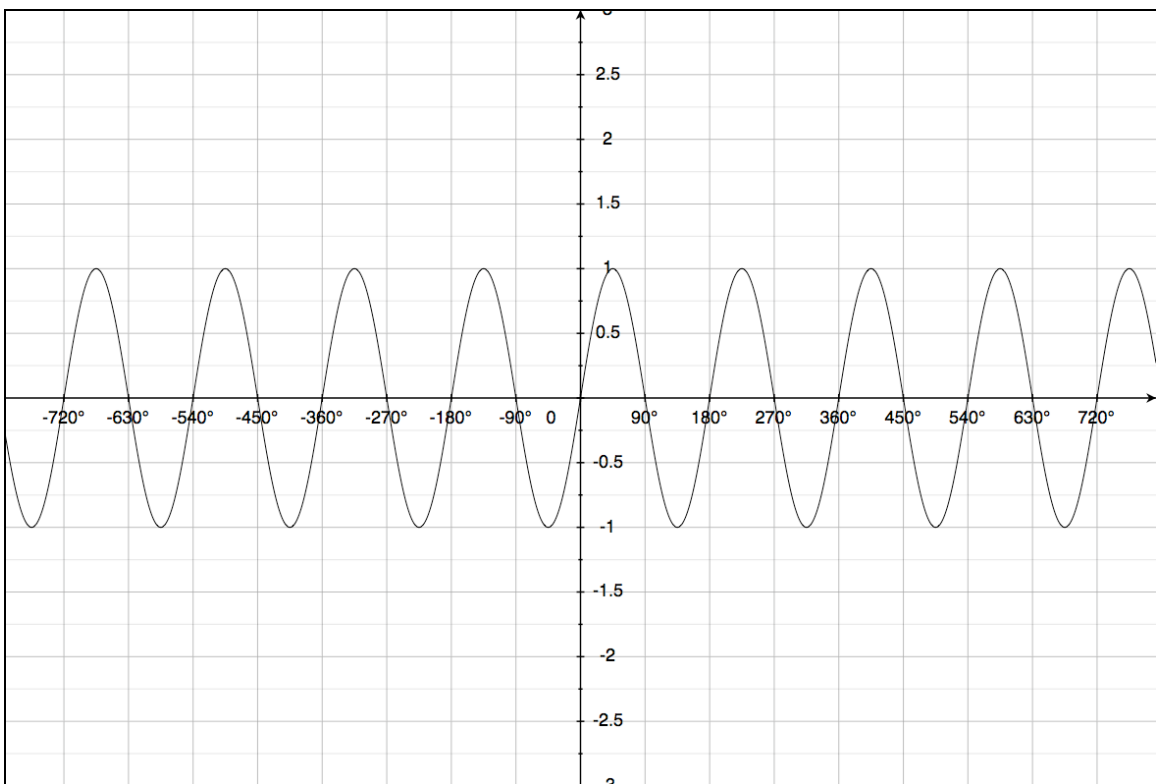


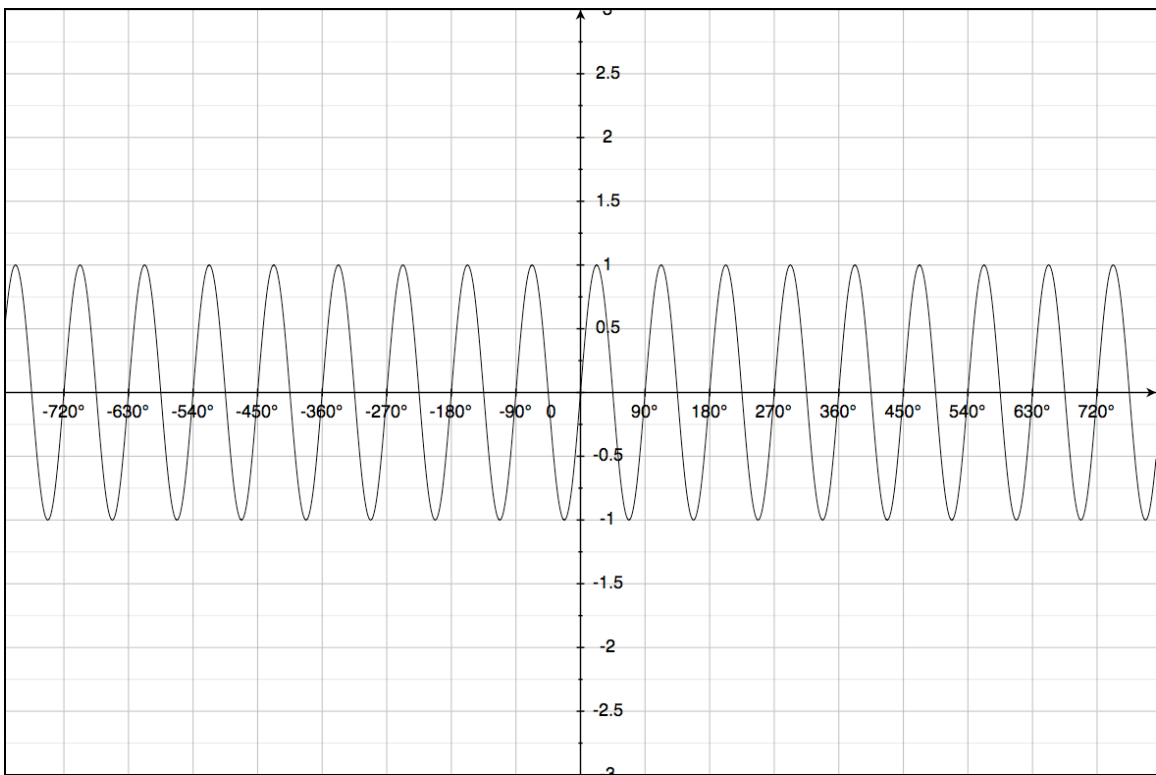
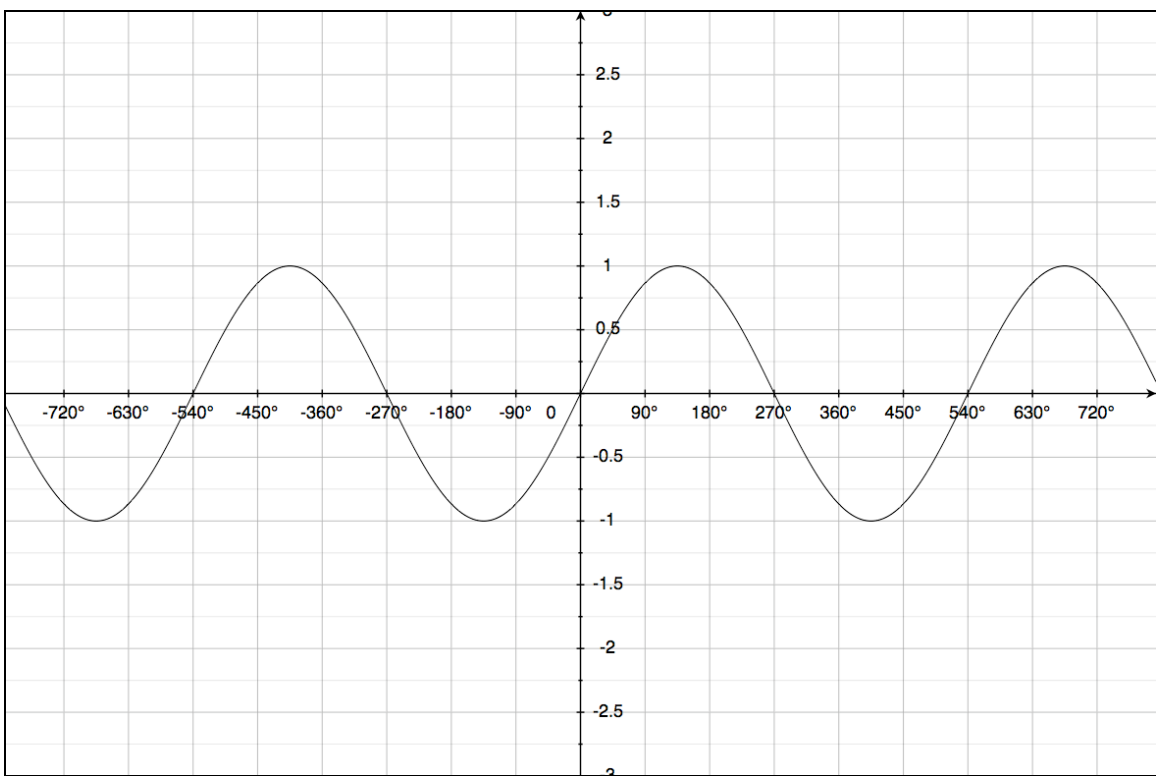












Precalc – Exit Slip – 12/6/10

Name: _____

Period: _____

Determine the amplitude and period of the following functions.

