

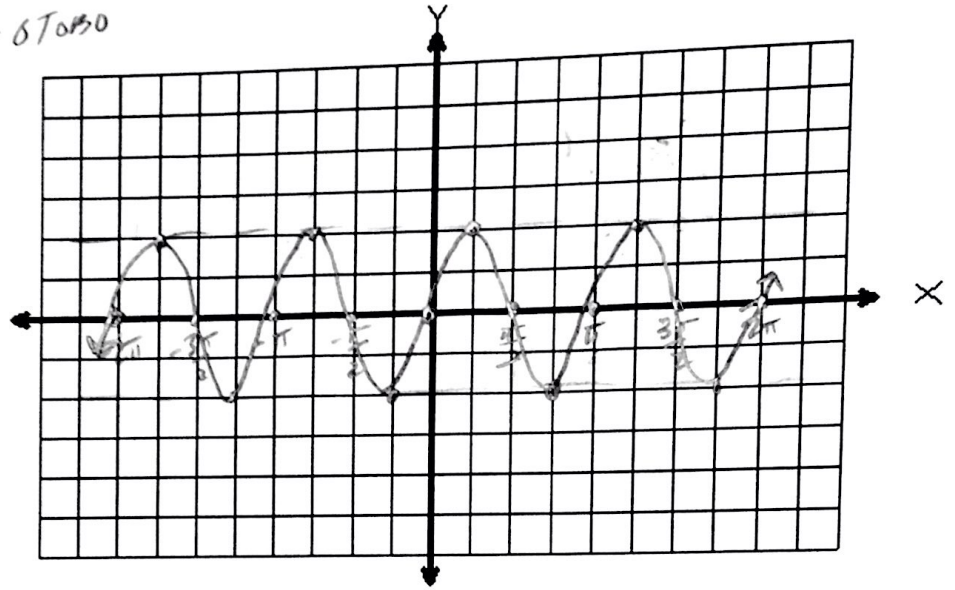
Honors Pre-Calc  
Graphing Template

Name \_\_\_\_\_  
Date \_\_\_\_\_ Block \_\_\_\_\_

1.  $y = 2 \sin 2\theta$

$\frac{\pi}{4} - 0$  to  $\pi$

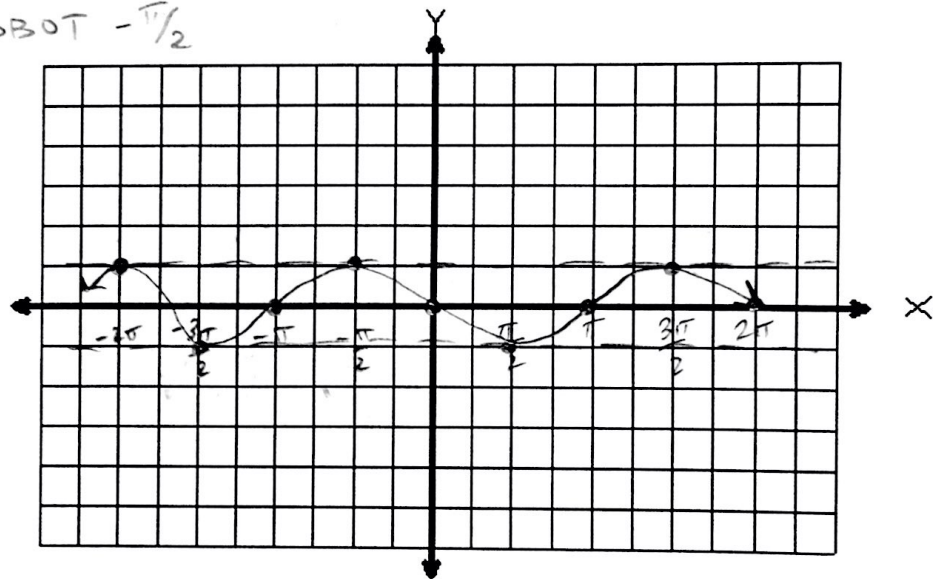
Amplitude	2
Period	$\pi$
Range	$[-2, 2]$
Vertical Shift	NA
Phase Shift	NA
Reflection	NA



2.  $y = \cos(\theta + \pi/2)$

TOBOT  $-\pi/2$

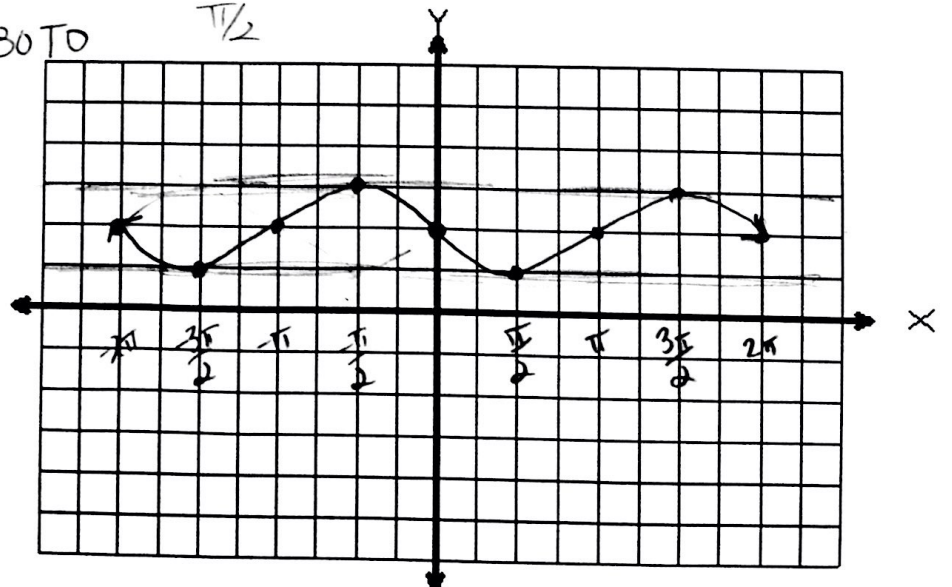
Amplitude	1
Period	$2\pi$
Range	$[-1, 1]$
Vertical Shift	NA
Phase Shift	$-\pi/2$
Reflection	NA



3.  $y = -\sin \theta + 2$

OBOTO  $\pi/2$

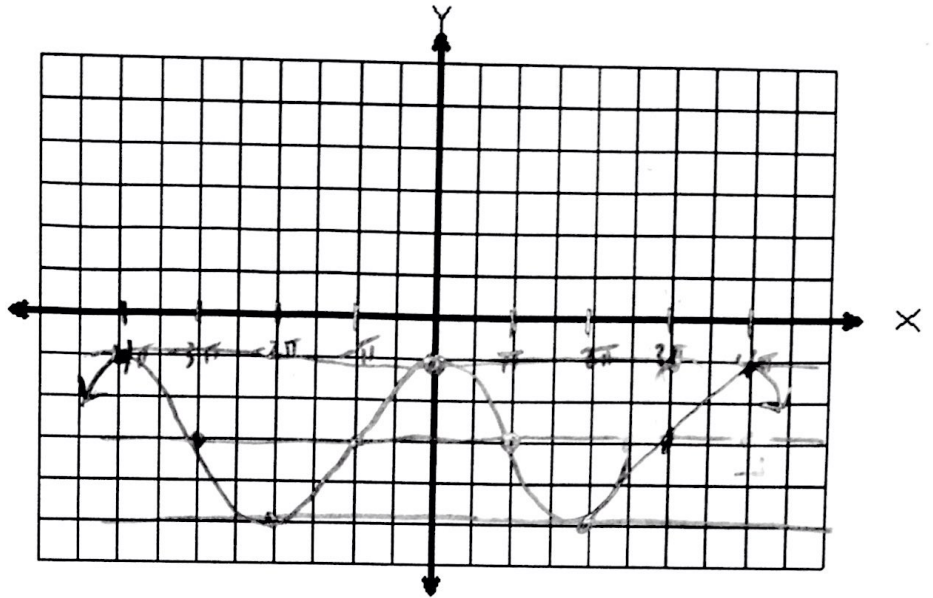
Amplitude	1
Period	$2\pi$
Range	$[1, 3]$
Vertical Shift	$\uparrow 2$
Phase Shift	NA
Reflection	Yes



4.  $y = 2 \cos \frac{1}{2} \theta - 3$

T O B O T  $\pi$

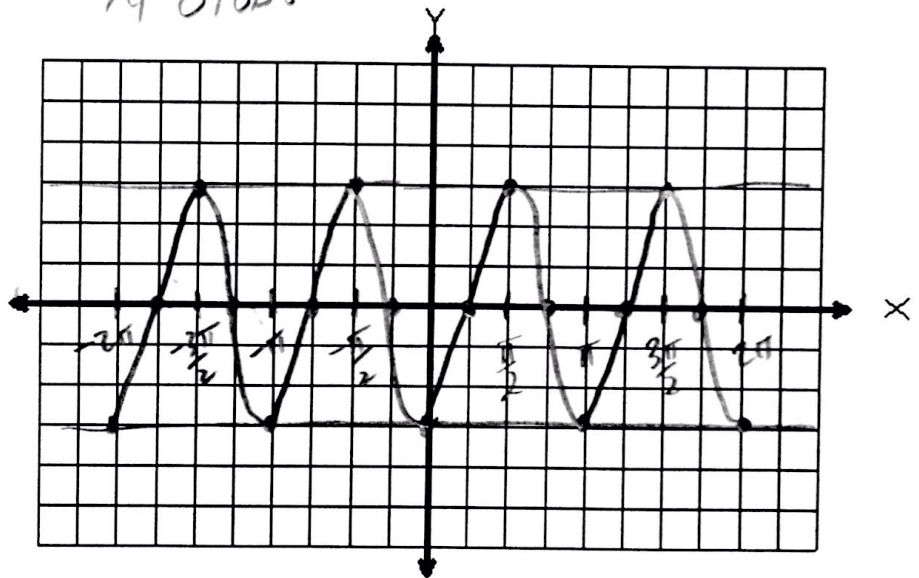
Amplitude	2
Period	$4\pi$
Range	$[-5, -1]$
Vertical Shift	$\downarrow 3$
Phase Shift	NA
Reflection	NA



5.  $y = 3 \sin (2\theta - \frac{\pi}{2})$

$\frac{\pi}{4}$  O T O B O

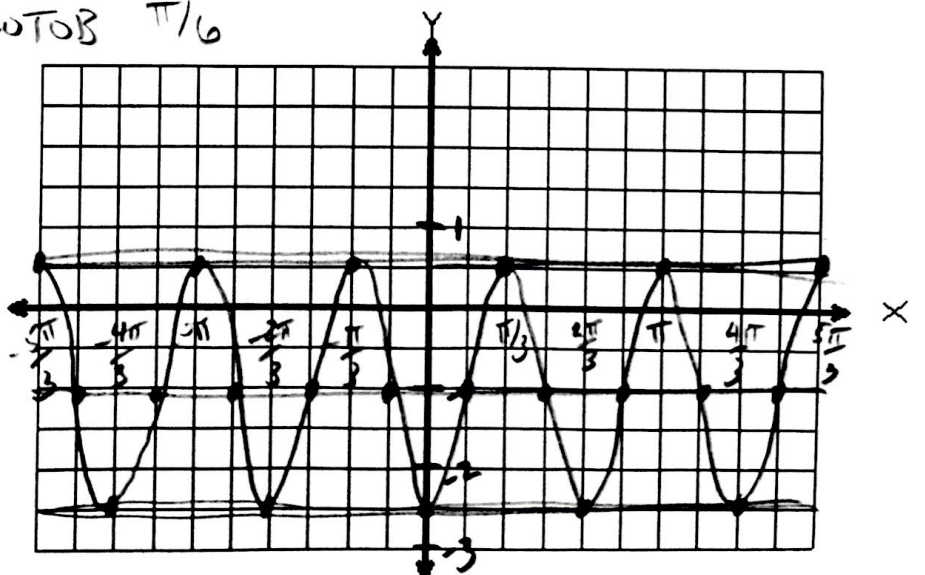
Amplitude	3
Period	$\pi$
Range	$[-3, 3]$
Vertical Shift	X
Phase Shift	$\frac{\pi}{4}$
Reflection	NA



6.  $y = -\frac{3}{2} \cos 3\theta - 1$

B O T O B  $\frac{\pi}{6}$

Amplitude	$\frac{3}{2}$
Period	$\frac{2\pi}{3}$
Range	$[-\frac{5}{2}, \frac{1}{2}]$
Vertical Shift	-1
Phase Shift	NA
Reflection	YES

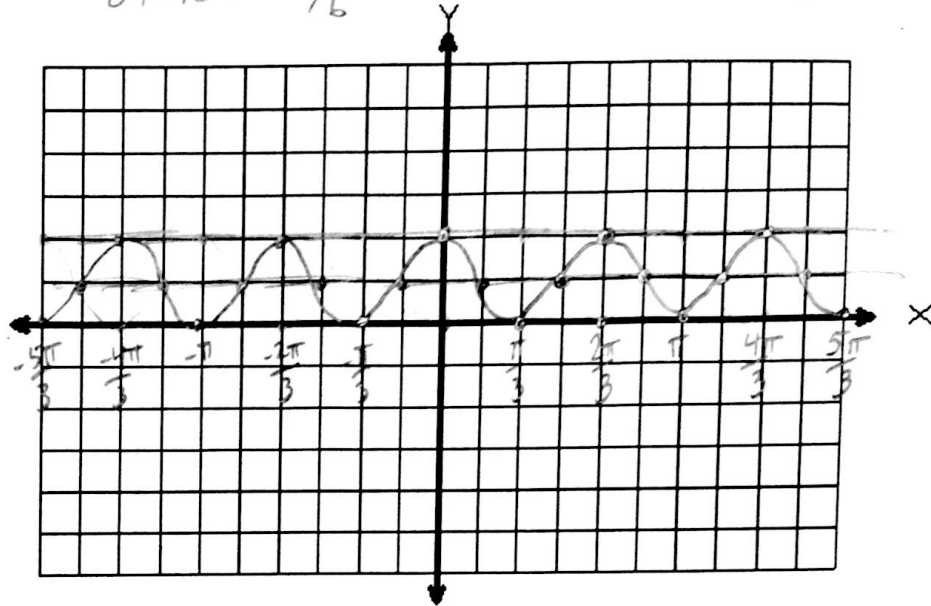


7.  $y = \sin\left(3\theta - \frac{3\pi}{2}\right) + 1$

$0 \leq \theta < 2\pi$   $\pi/6$

$3\theta = \frac{3\pi}{2} \cdot \frac{1}{3}$   
 $\theta = \pi/2$

Amplitude	1
Period	$\frac{2\pi}{3}$
Range	$[0, 2]$
Vertical Shift	$\uparrow 1$
Phase Shift	$\pi/2$
Reflection	NA



8.  $y = 2 \cos(4\theta + \pi)$

$0 \leq \theta < 2\pi$   $\pi/8$

Amplitude	2
Period	$\pi/2$
Range	$[-2, 2]$
Vertical Shift	NA
Phase Shift	$-\pi/4$
Reflection	NA

