

Pre-Calc

Name _____

Graphing Trig Functions

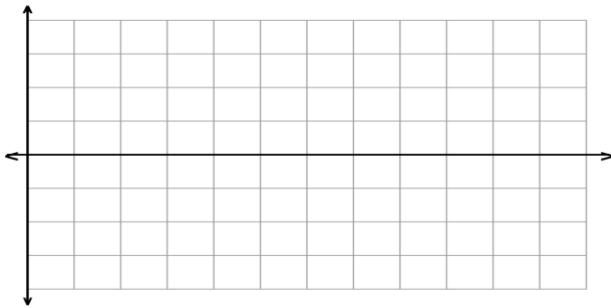
Date _____ Per _____

Determine the amplitude, period, horizontal shift, and vertical shift for each function.

Graph each function by labeling the x-axis and y-axis with significant coordinates.

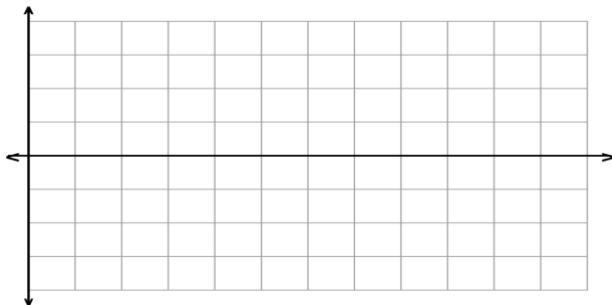
1. $y = \frac{2}{3} \sin x$

Amplitude	
Period	
Phase Shift	
Vertical Shift	



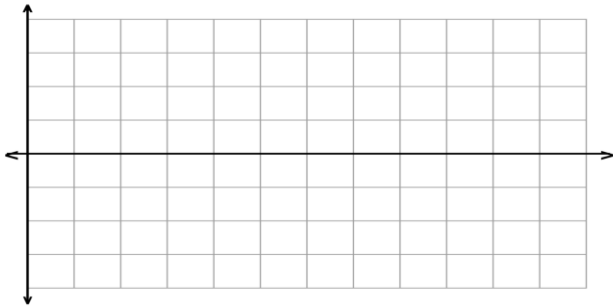
2. $y = 4 \sin \pi x$

Amplitude	
Period	
Phase Shift	
Vertical Shift	



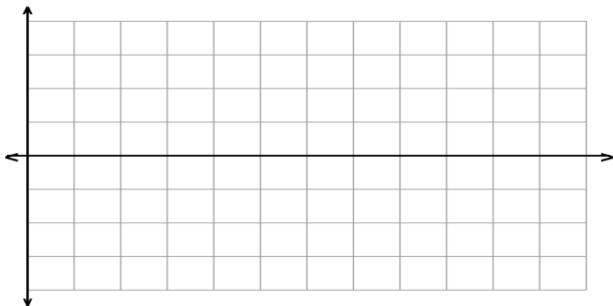
3. $y = -3 \sin 3x + 3$

Amplitude	
Period	
Phase Shift	
Vertical Shift	



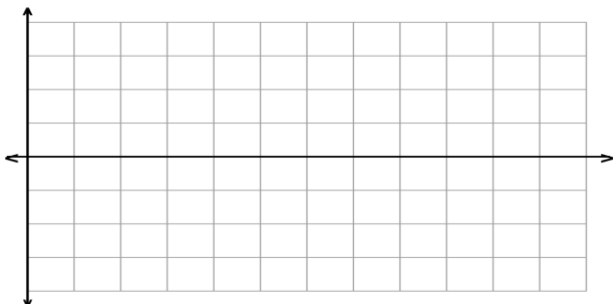
4. $y = 3 \cos 2 \left(x - \frac{\pi}{4} \right) - 1$

Amplitude	
Period	
Phase Shift	
Vertical Shift	



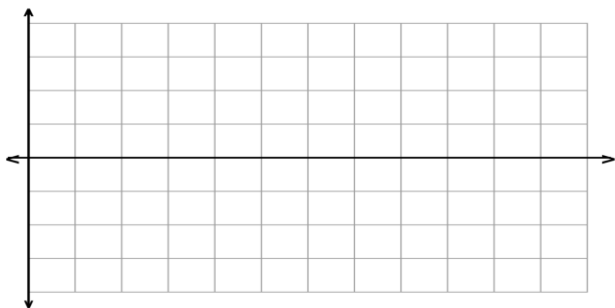
5. $y = 3 - \cos 2\pi x$

Amplitude	
Period	
Phase Shift	
Vertical Shift	



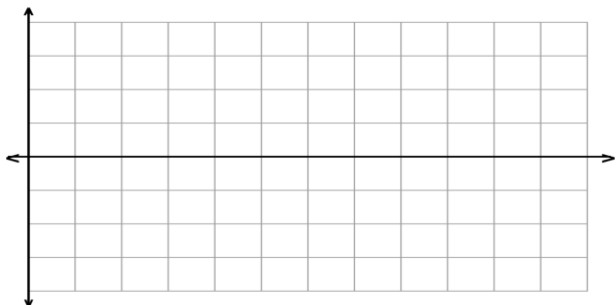
6. $y = -3 \sin\left(4x - \frac{\pi}{4}\right) - 2$

Amplitude	
Period	
Phase Shift	
Vertical Shift	



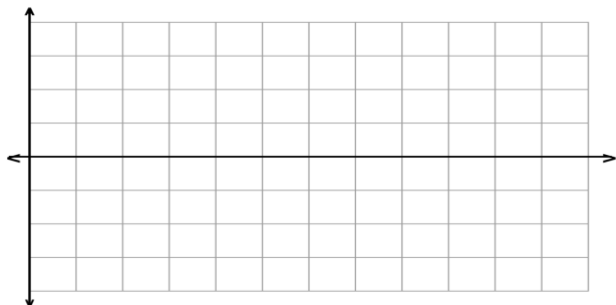
7. $y = 3 \cos\frac{x}{2} - 1$

Amplitude	
Period	
Phase Shift	
Vertical Shift	



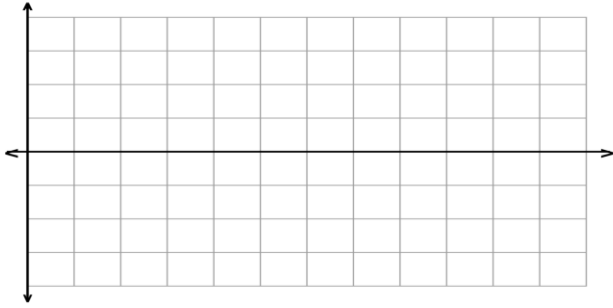
8. $y = \sin \pi(x - 3) + 1$

Amplitude	
Period	
Phase Shift	
Vertical Shift	



9. $y = 2 \sin \frac{3}{2} \left(x + \frac{\pi}{6} \right) + 2$

Amplitude	
Period	
Phase Shift	
Vertical Shift	



10. $y = 3 \sin 2(x - \pi) + 1$

Amplitude	
Period	
Phase Shift	
Vertical Shift	

