Date:_____ Period:_____

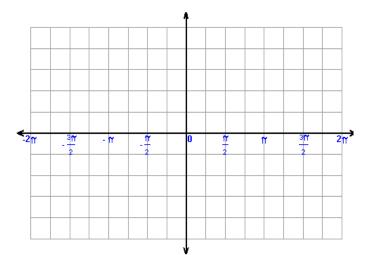
Intro to Graphing Trig. Functions

- 1. Identify the amplitude, range, and period of the trigonometric functions below.
- a. $y = 7 \sin 2\pi x$

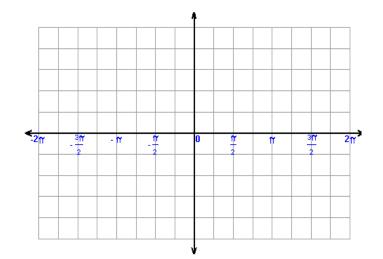
- $b. y = \frac{1}{2} \cos \frac{3}{2} x$
- $c. y = -4\sin 4x$

- 2. Write sine and cosine functions that have the following characteristics
 - a. A sine function that has an amplitude of 4
 - b. A cosine function that has an amplitude of 8
 - c. A sine function that has a period of 2π
 - d. A cosine function that has a period of 8π
 - e. A sine function that has a period of $\frac{1}{2}\pi$ and an amplitude of 3

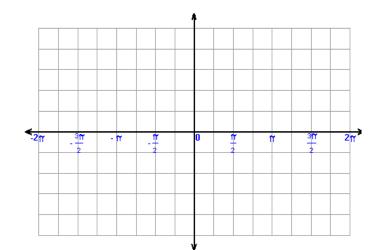
- 3. Graph the sine and cosine functions with period and amplitude transformations.
- a. $y = 4\sin x$



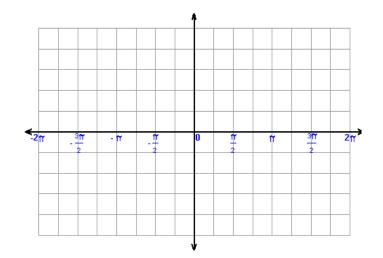
b. $y = -2\cos x$



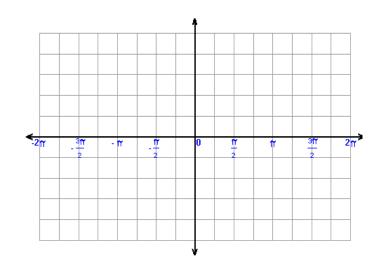
c. $y = 3 \cos 2x$



d. $y = \cos 2x$



e. $y = -4 \sin 4x$



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

