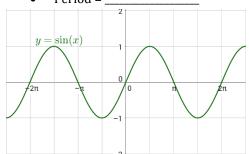
Precalculus

4-06 Graphs of Sine and Cosine

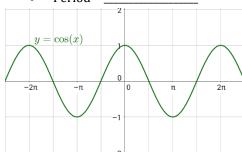
 $y = \sin x$

- Starts at _____
- Amplitude = _____
- Period = __



 $y = \cos x$

- Starts at _____
- Amplitude = _____
- Period = __

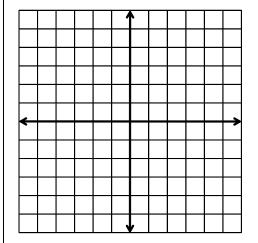


Transformations

$$y = a\sin(bx - c) + d$$

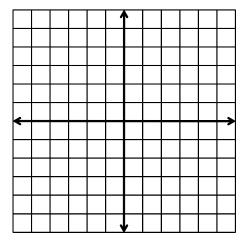
- *a* = vertical _____
 - o Amplitude = ______
- *b* = horizontal _____
 - Period ______
- *c* = horizontal ______
 - o **Phase shift** ______ (Right if c is positive)
- *d* = vertical _____
 - o Midline _____

Graph $f(x) = 2 \sin x$

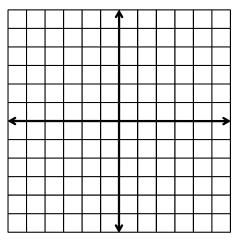


Precalculus 4-06 Name: _____

Graph $y = \cos \frac{x}{2}$



Graph
$$y = 2\sin\left(x - \frac{\pi}{2}\right)$$



Graph
$$y = -\frac{1}{2}\sin(\pi x + \pi) + 1$$

