

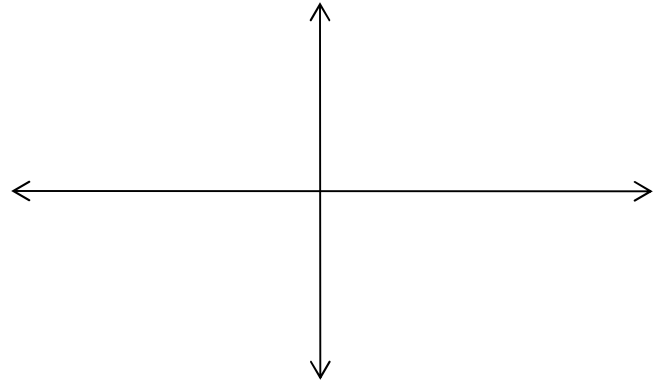
Name: _____ Date: _____ Period: _____

Sketching the graphs of sine/cosine functions

Directions: #1-8 Fill in the tables below. Then, use the points on the table to sketch each function on the coordinate plane. Label the axis.

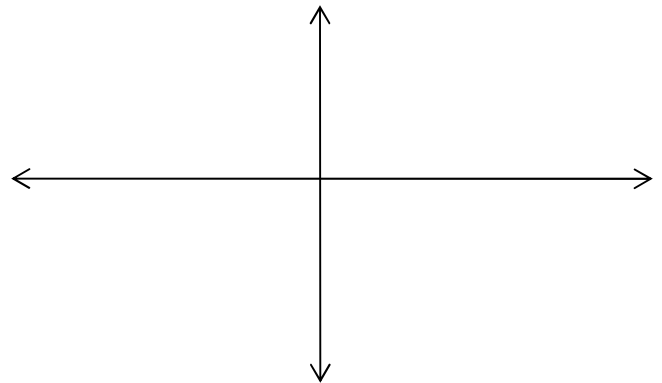
1) $y = 2\sin(x)$

x	-2π	$-\frac{3\pi}{2}$	$-\pi$	$-\frac{\pi}{2}$	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
y									



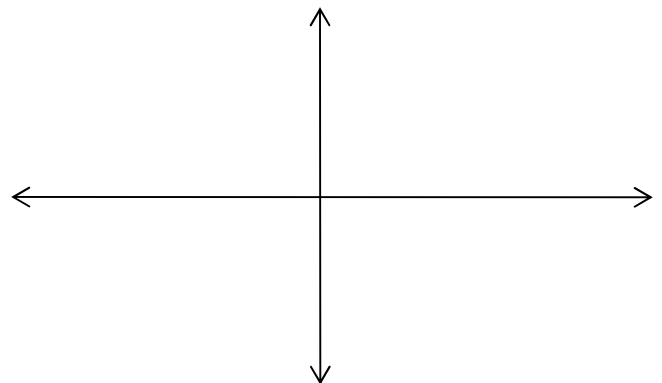
2) $y = -4\sin(x)$

x	-2π	$-\frac{3\pi}{2}$	$-\pi$	$-\frac{\pi}{2}$	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
y									



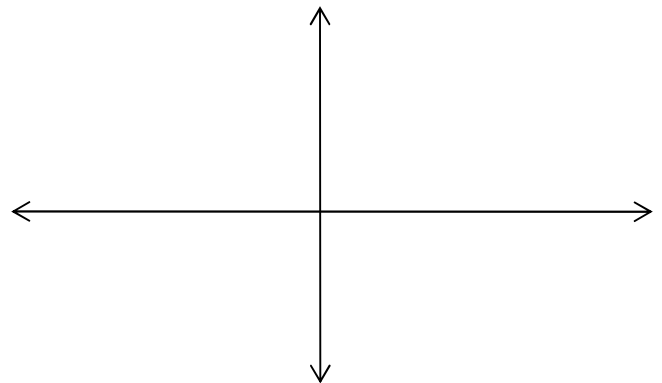
3) $y = \frac{-1}{3}\sin(x)$

x	-2π	$-\frac{3\pi}{2}$	$-\pi$	$-\frac{\pi}{2}$	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
y									



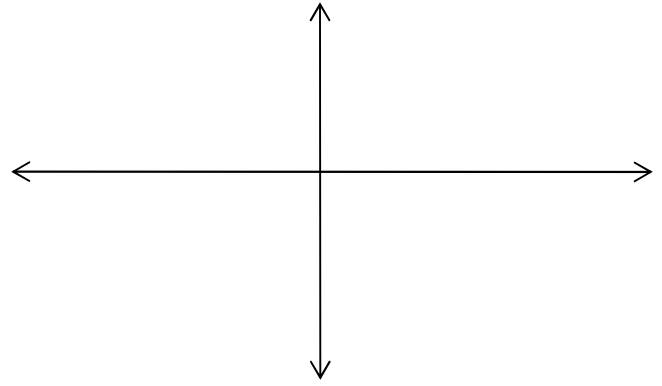
4) $y = \frac{1}{10}\sin(x)$

x	-2π	$-\frac{3\pi}{2}$	$-\pi$	$-\frac{\pi}{2}$	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
y									



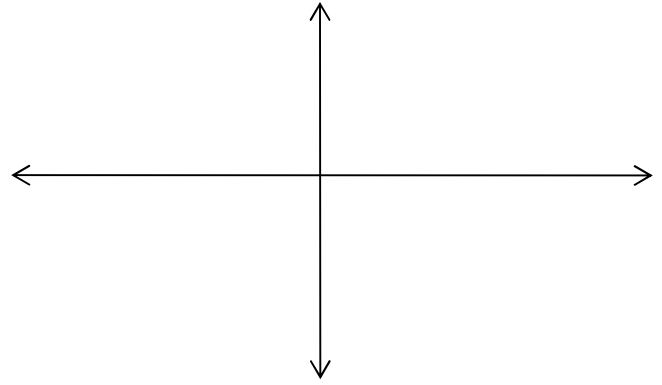
5) $y = 2 \cos(x)$

x	-2π	$-\frac{3\pi}{2}$	$-\pi$	$-\frac{\pi}{2}$	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
y									



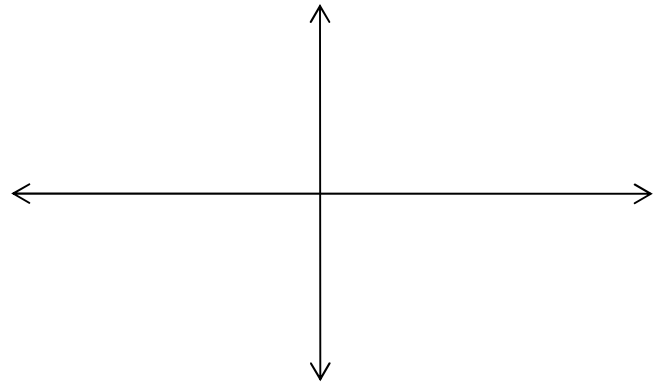
6) $y = -4 \cos(x)$

x	-2π	$-\frac{3\pi}{2}$	$-\pi$	$-\frac{\pi}{2}$	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
y									



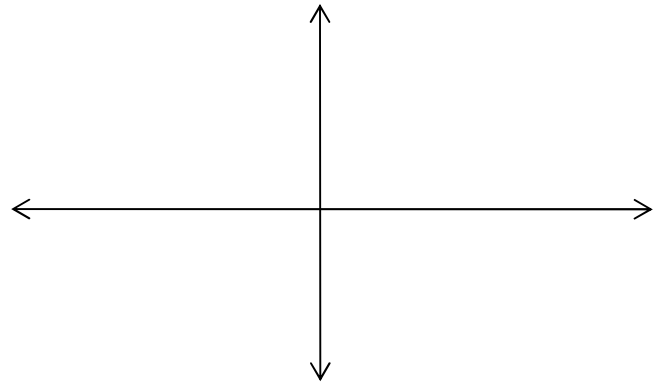
7) $y = \frac{-1}{3} \cos(x)$

x	-2π	$-\frac{3\pi}{2}$	$-\pi$	$-\frac{\pi}{2}$	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
y									



8) $y = \frac{1}{10} \cos(x)$

x	-2π	$-\frac{3\pi}{2}$	$-\pi$	$-\frac{\pi}{2}$	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
y									



9) The height of the wave from the x-axis to the top of a wave is called **amplitude**. What is the **amplitude** for each of the graphs above?

1) _____ 2) _____ 3) _____ 4) _____

5) _____ 6) _____ 7) _____ 8) _____