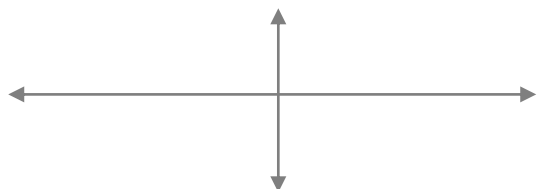


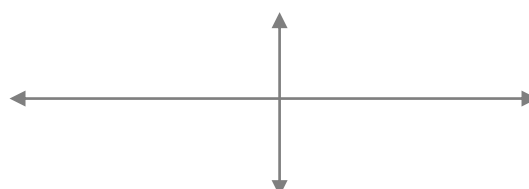
Graph each of the following over ONE fundamental period and answer the questions below.

1) $f(x) = \sin \frac{1}{2}x$



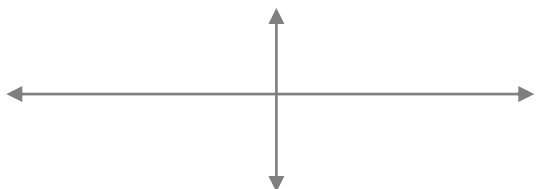
Amplitude: _____ Period: _____ Spacing: _____
Phase Shift: _____ Vertical Shift: _____

2) $g(x) = \cos 2x$



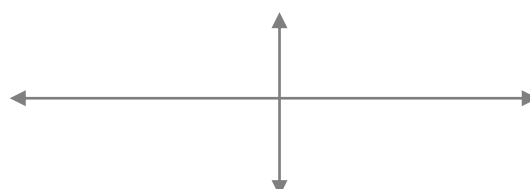
Amplitude: _____ Period: _____ Spacing: _____
Phase Shift: _____ Vertical Shift: _____

3) $h(x) = \sin(x + \pi)$



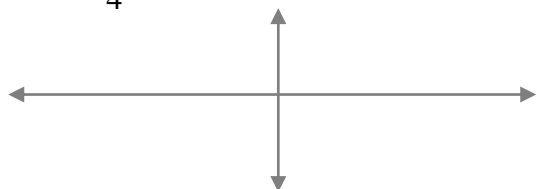
Amplitude: _____ Period: _____ Spacing: _____
Phase Shift: _____ Vertical Shift: _____

4) $j(x) = \cos\left(x - \frac{\pi}{2}\right)$



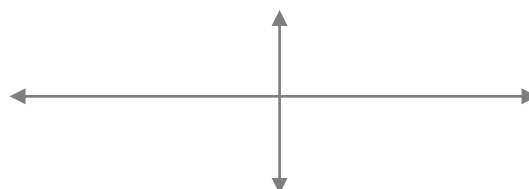
Amplitude: _____ Period: _____ Spacing: _____
Phase Shift: _____ Vertical Shift: _____

5) $k(x) = \sin \frac{1}{4}(x - \pi)$



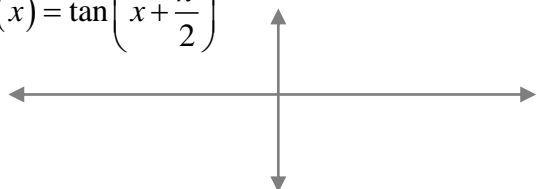
Amplitude: _____ Period: _____ Spacing: _____
Phase Shift: _____ Vertical Shift: _____

6) $l(x) = \cos \pi(x + 2)$



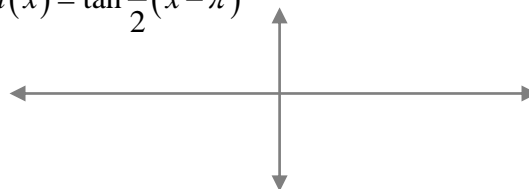
Amplitude: _____ Period: _____ Spacing: _____
Phase Shift: _____ Vertical Shift: _____

7) $m(x) = \tan\left(x + \frac{\pi}{2}\right)$



Amplitude: _____ Period: _____ Spacing: _____
Phase Shift: _____ Vertical Shift: _____

8) $n(x) = \tan \frac{1}{2}(x - \pi)$



Amplitude: _____ Period: _____ Spacing: _____
Phase Shift: _____ Vertical Shift: _____