

Rewrite each equation using the appropriate even/odd property to avoid a horizontal reflection. State the amplitude, period, phase shift and vertical shift of each of the following functions. Then graph one complete period of each function, labeling the horizontal axis and vertical axis. Also state the domain and range of one period using interval notation. \*\* Remember:  $\theta \rightarrow$  **degrees** and  $x \rightarrow$  **radians**. \*\*

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

2.  $y = -2\sin\left(-\frac{1}{5}x\right)$

3.  $y = \sin(-4\theta)$

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

5.  $y = -\frac{1}{2}\sin(-3\theta)$

6.  $y = \cos(-x + \pi)$

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

8.  $y = 3 + \sin\left(-\frac{1}{2}x - \frac{\pi}{6}\right)$

9.  $y = 4\cos(-6\theta + 420^\circ) - 2$

10.  $y = 4\sin(-3\theta - 99^\circ) - 1$