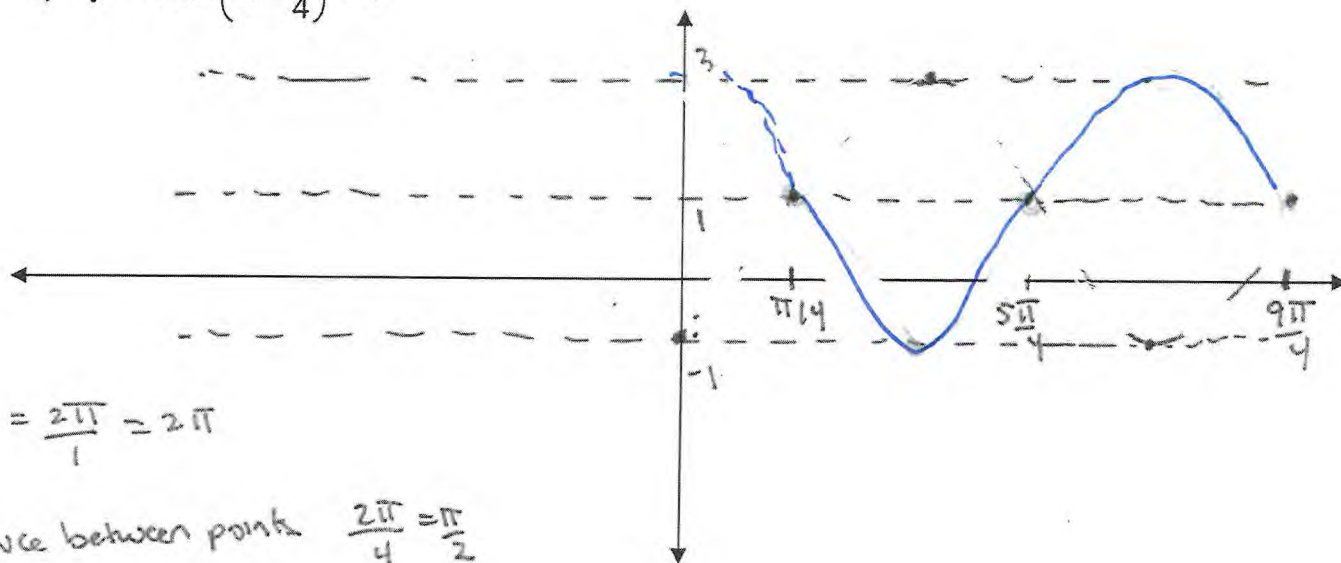


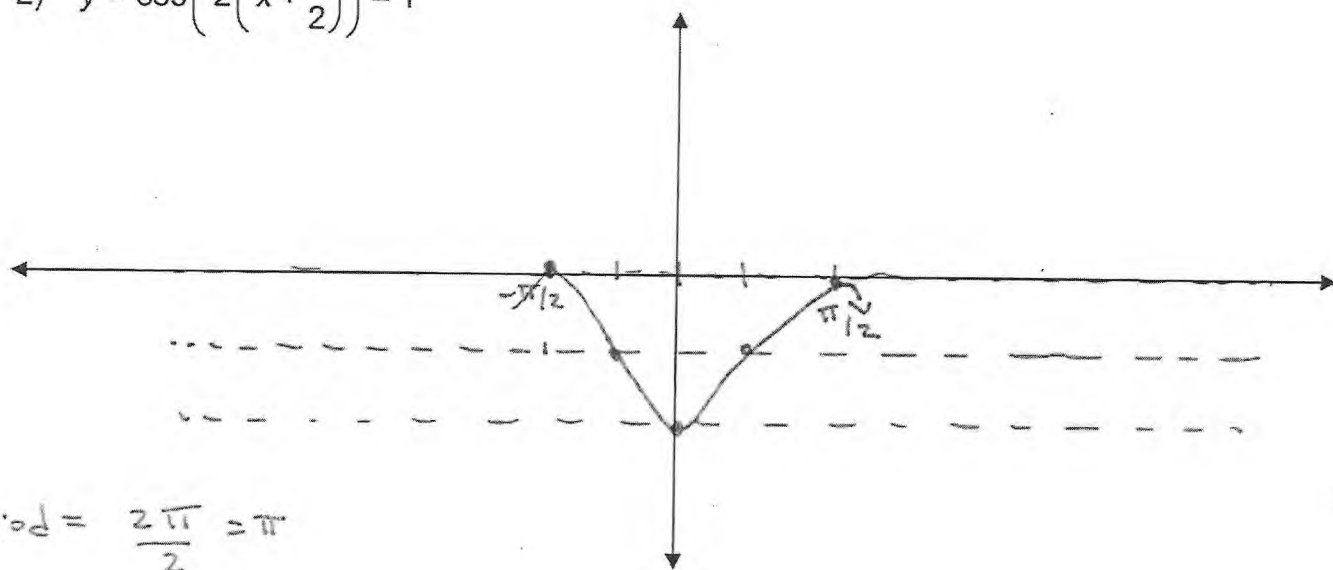
5.2 Part 1 Homework

Provide a graph of each of the following functions.
Include at least one full period of the function

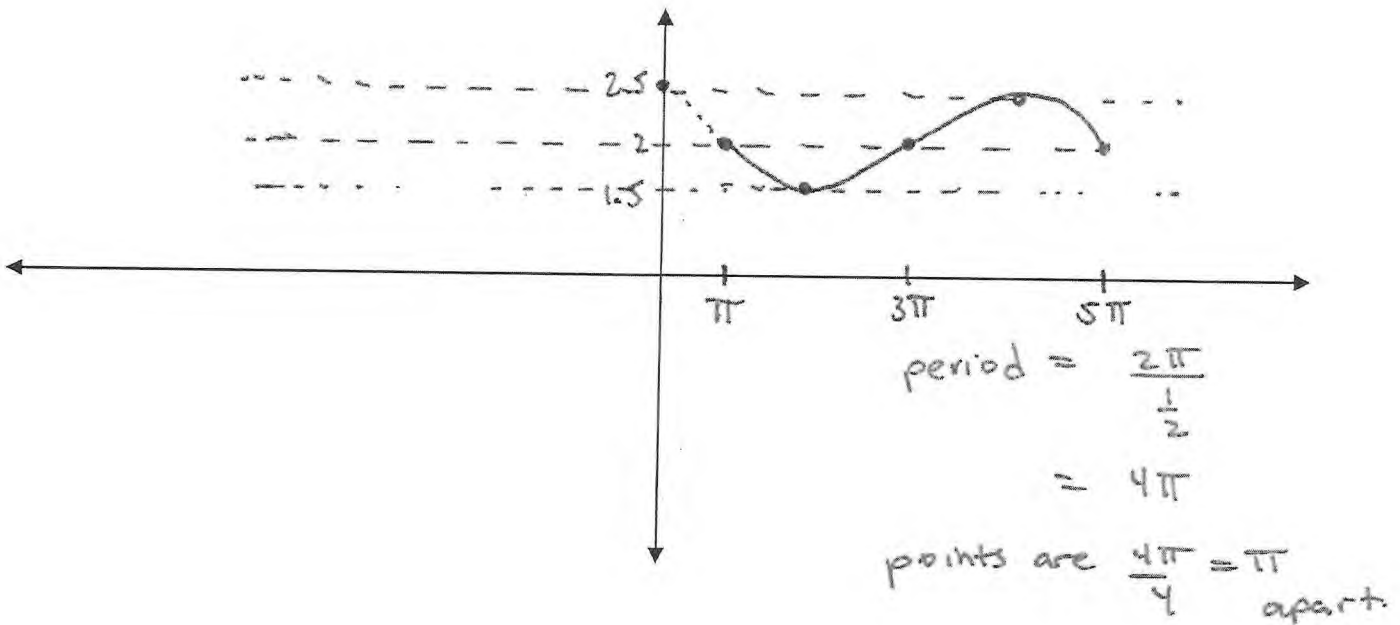
$$1) y = -2\sin\left(x - \frac{\pi}{4}\right) + 1$$



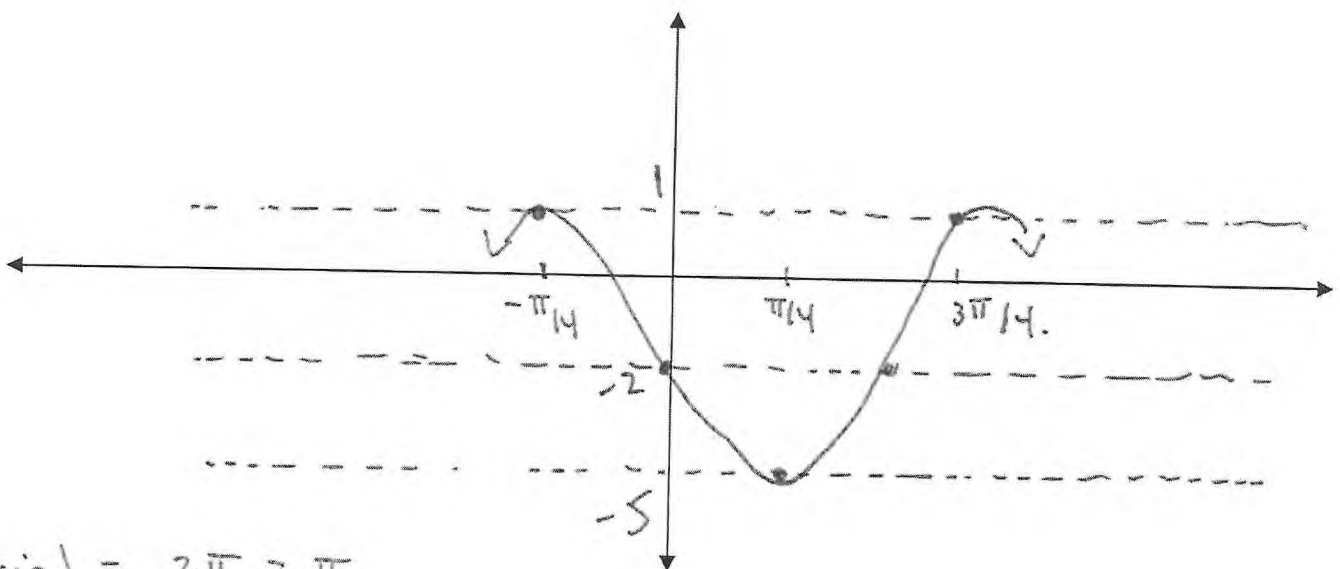
$$2) y = \cos\left(2\left(x + \frac{\pi}{2}\right)\right) - 1$$



$$3) y = -0.5\sin(0.5(x - \pi)) + 2$$

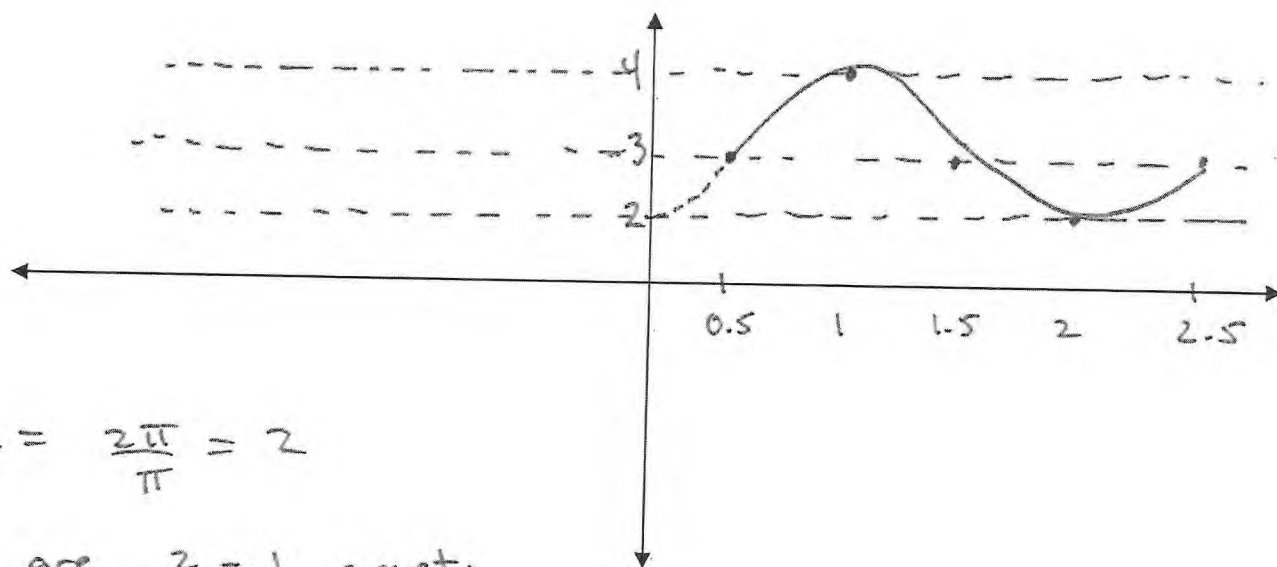


$$4) y = 3\cos\left(2\left(x + \frac{\pi}{4}\right)\right) - 2$$



$\text{period} = \frac{2\pi}{2} = \pi$
 points are $\frac{\pi}{4}$ apart.

5) $y = \sin(\pi(x - 0.5)) + 3$



$$\text{period} = \frac{2\pi}{\pi} = 2$$

points are $\frac{2}{4} = \frac{1}{2}$ apart.

Challenge

Write the equation of the following graph in both the form $y = a \sin(b(x - c)) + d$
or $y = a \cos(b(x - c)) + d$

* Send me a picture of your answer !! *

