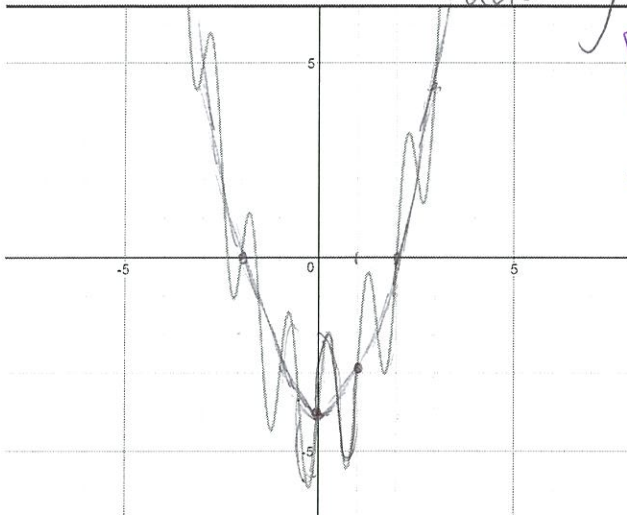


STEPS:

$$\frac{2\pi}{x} = 1$$

$$A = 2$$

~~multiplication~~
 adding \rightarrow quadratic \rightarrow sin \rightarrow pos. \rightarrow periodic
 amp



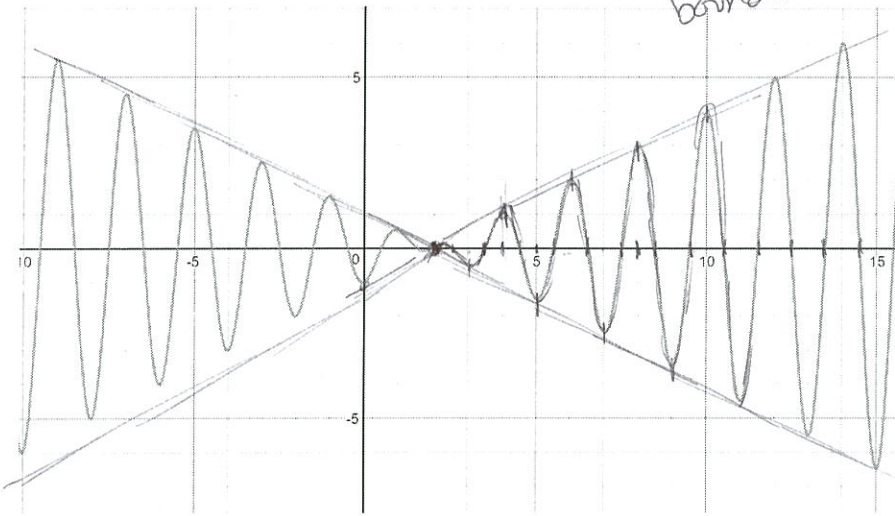
$$(x^2 - 4) + 2\sin(2\pi x)$$

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

$$\frac{\pi}{2}, \frac{3\pi}{2}$$

1.6 4.7

mult. \rightarrow linear boundaries \rightarrow odd so cos \rightarrow important points happening every $\frac{1}{2}$ so $\frac{1}{2} \cdot 4 = 2$



$$b = 3$$

$$3$$

$$\frac{2\pi}{x} = 2$$

$$x = \pi$$

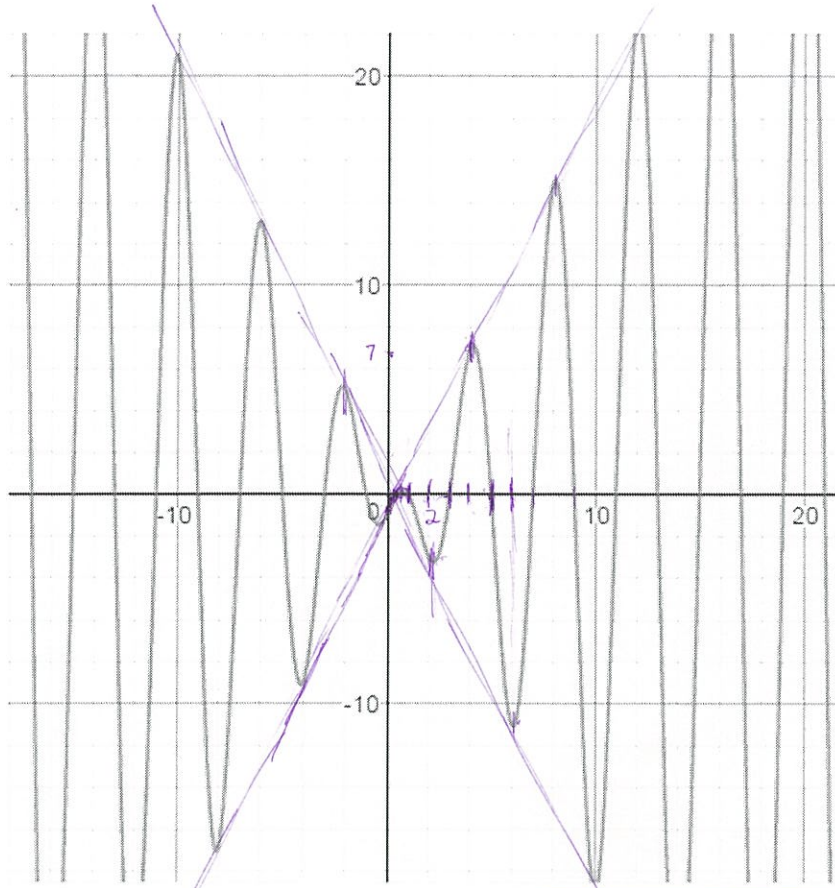
$$\frac{1}{2} \cdot 4 = 2$$

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

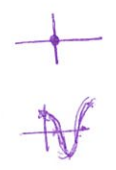
$$y = \frac{1}{2}x - 1$$

$$y = \cos(\pi x)$$

$$2\pi \cdot \frac{2}{\pi} = 4$$



$$\frac{80}{4} = 2$$



$$y = 2x - 1$$

$$\cos(x)$$

4

$$\frac{2\pi}{x} = 2\pi$$

$$\frac{1}{4} \cdot 4 = 1$$

$$\frac{2\pi}{x} = 4$$

$$1 \cdot 4 = 4$$

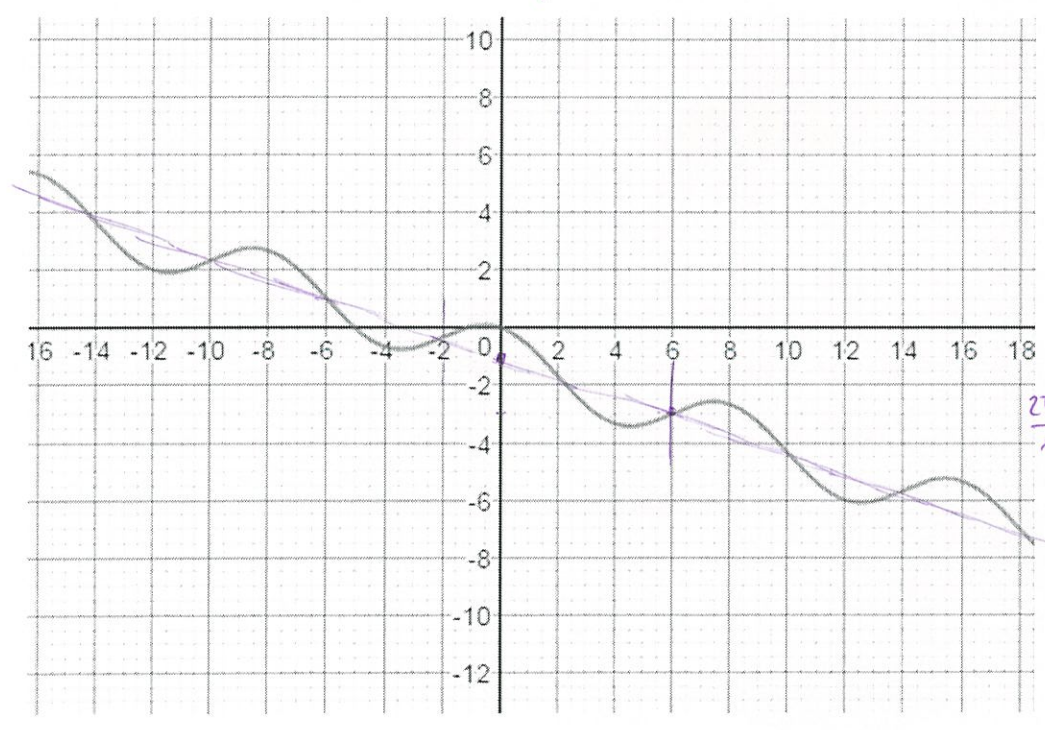
2π

$$2\pi = 4x$$

$$\frac{1}{4} \cdot 4 = 2$$

$$\boxed{\frac{\pi}{2}}$$

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



$$y = -\frac{1}{3}x - 1$$

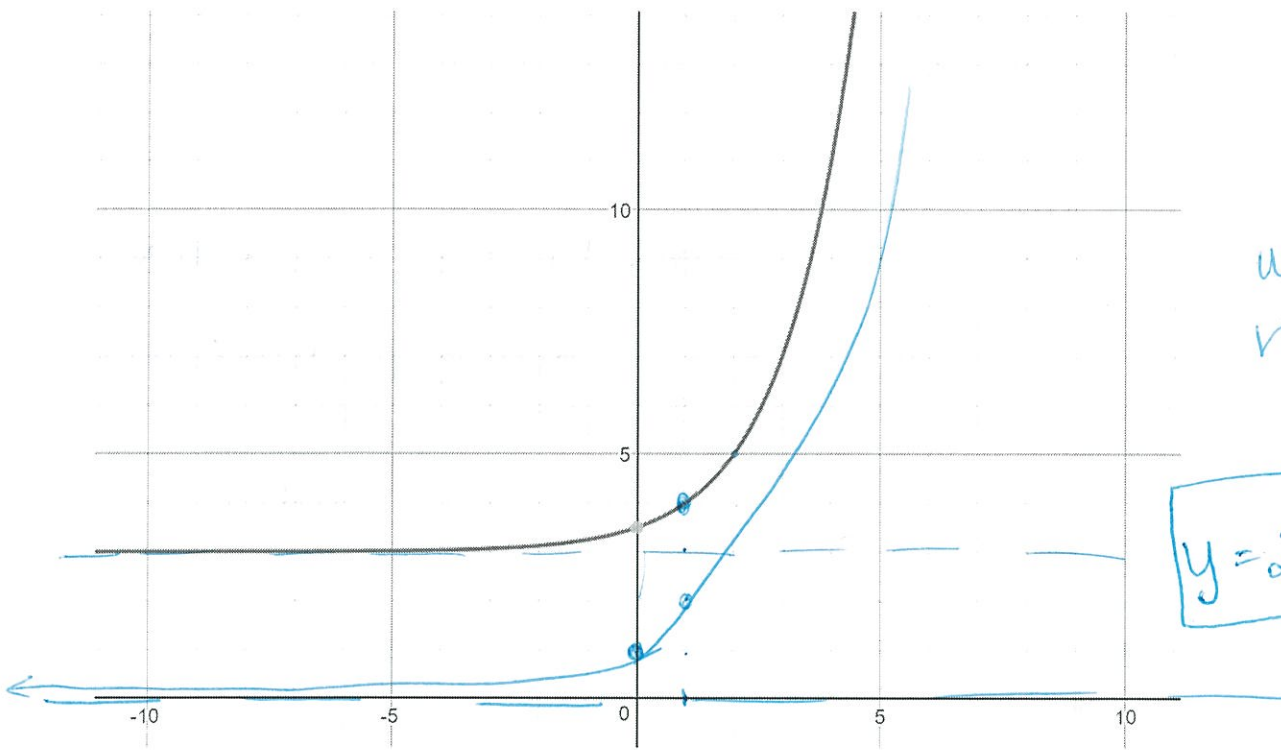
$$\cos\left(\frac{\pi}{4}x\right)$$

$$\frac{2\pi}{x} = 8$$

$$2\pi = 8x$$

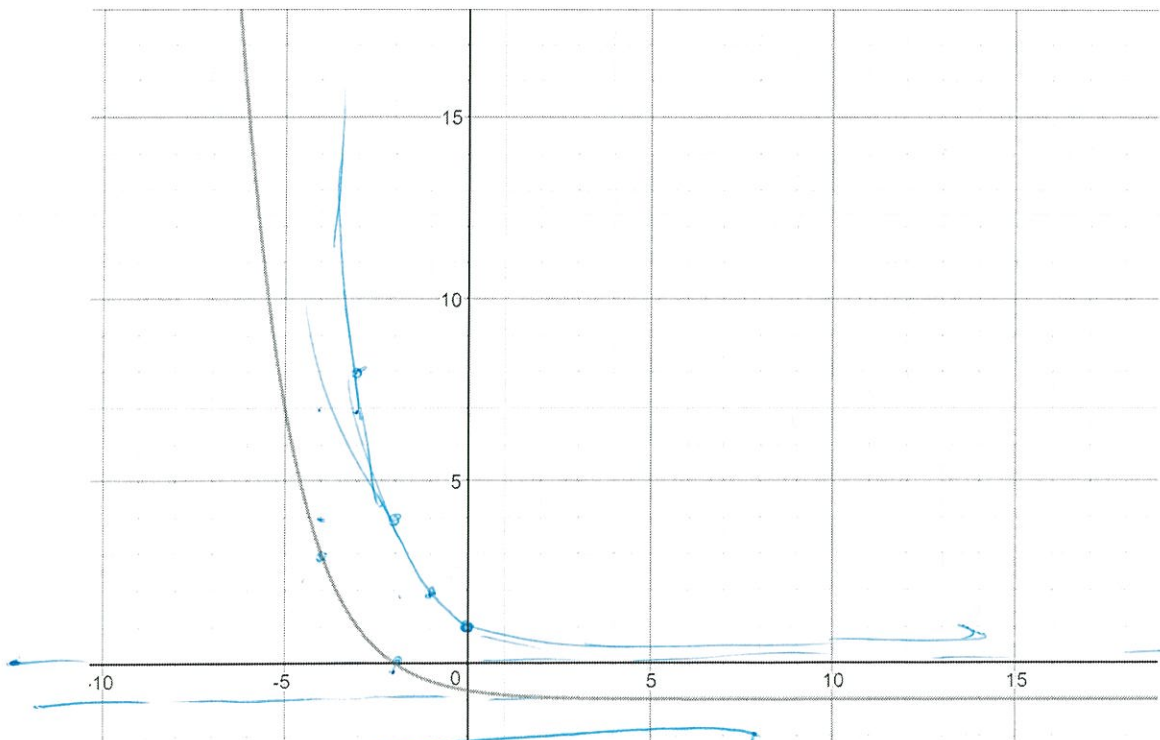
$$\frac{\pi}{4} x$$

$$y = -\frac{1}{3}x - 1 + \cos\left(\frac{\pi}{4}x\right)$$



up 3
right 1

$$y = 2^{x-1} + 3$$



down 1
~~up 1~~
~~over~~
left + 2

$$y = \frac{1}{2}^{x+2} - 1$$

x	y
0	1
-2	4
-1	2