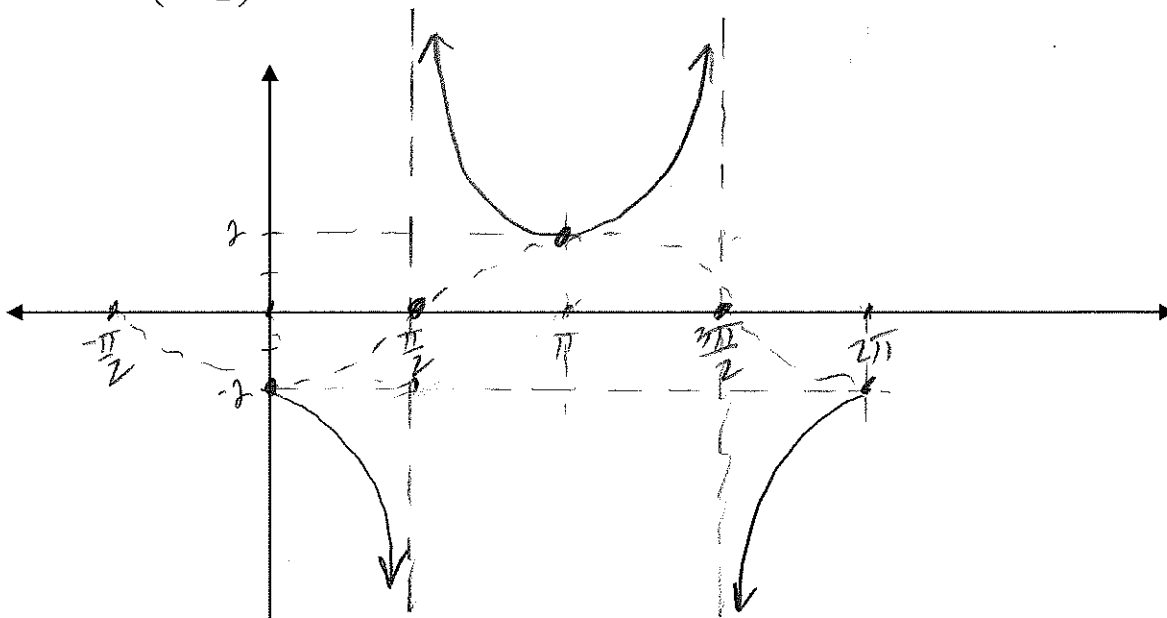


4.6 – Even More Graphing Practice!

1. Graph the following equations from 0 to 2π

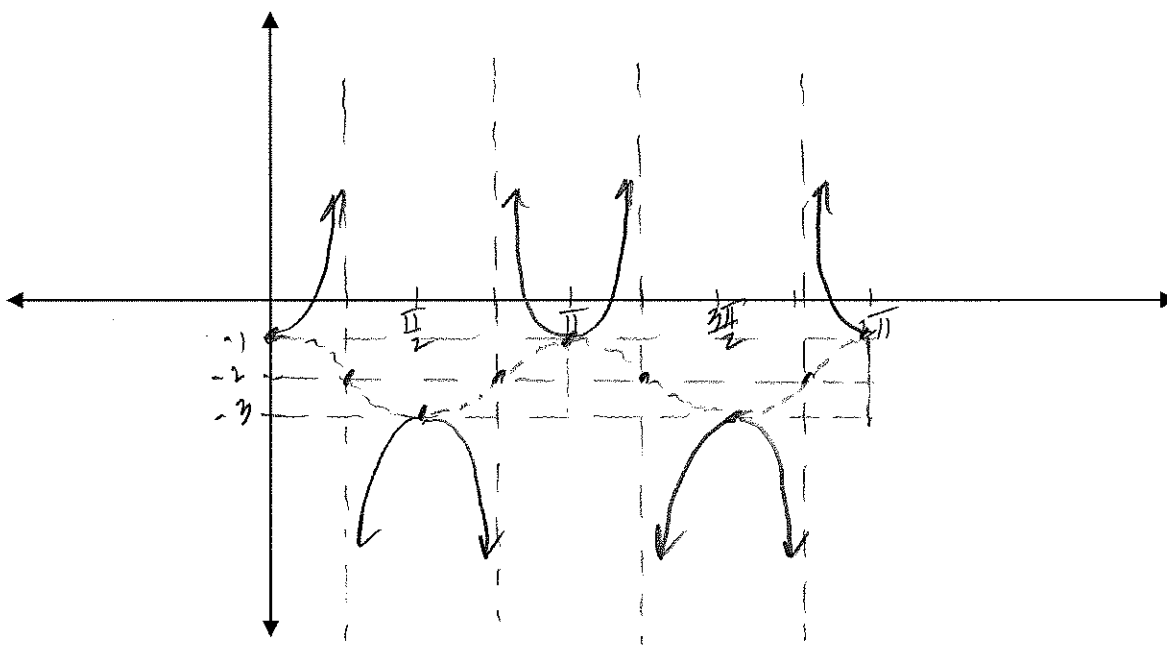
a. $y = -2\csc\left(x + \frac{\pi}{2}\right)$

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



b. $y = \sec(2x) - 2$

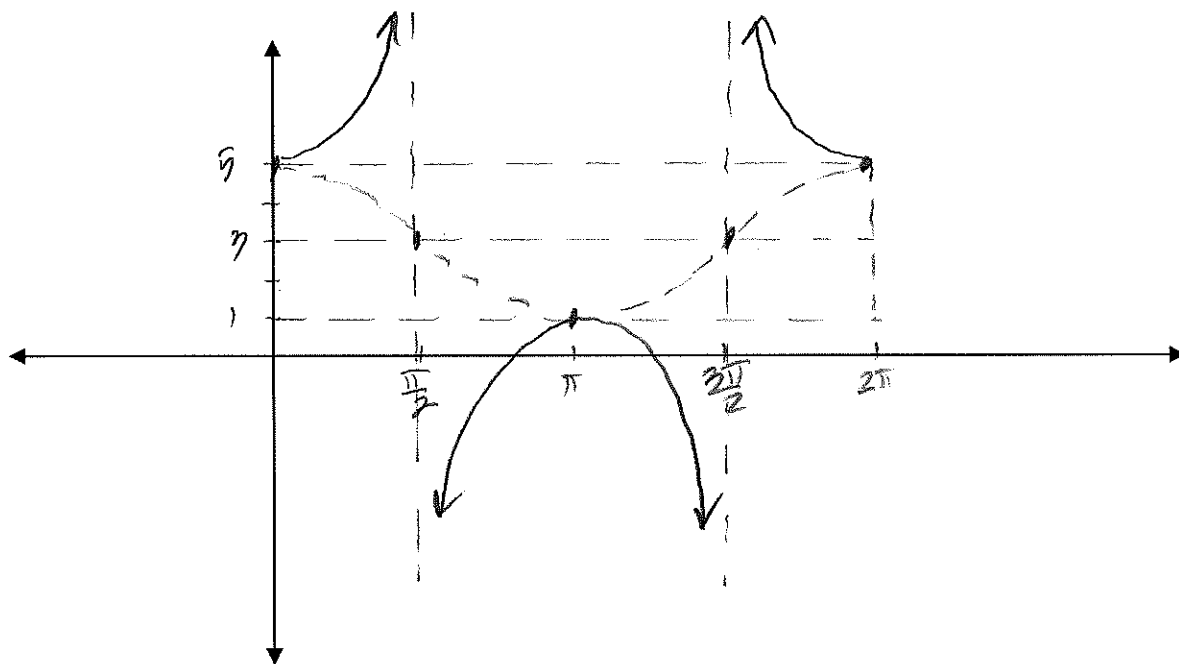
$y = \cos 2x - 2$ $P = \pi$ $CP = \frac{\pi}{4}$



4.6 – Even More Graphing Practice!

2. Graph the following equations from 0 to 2π

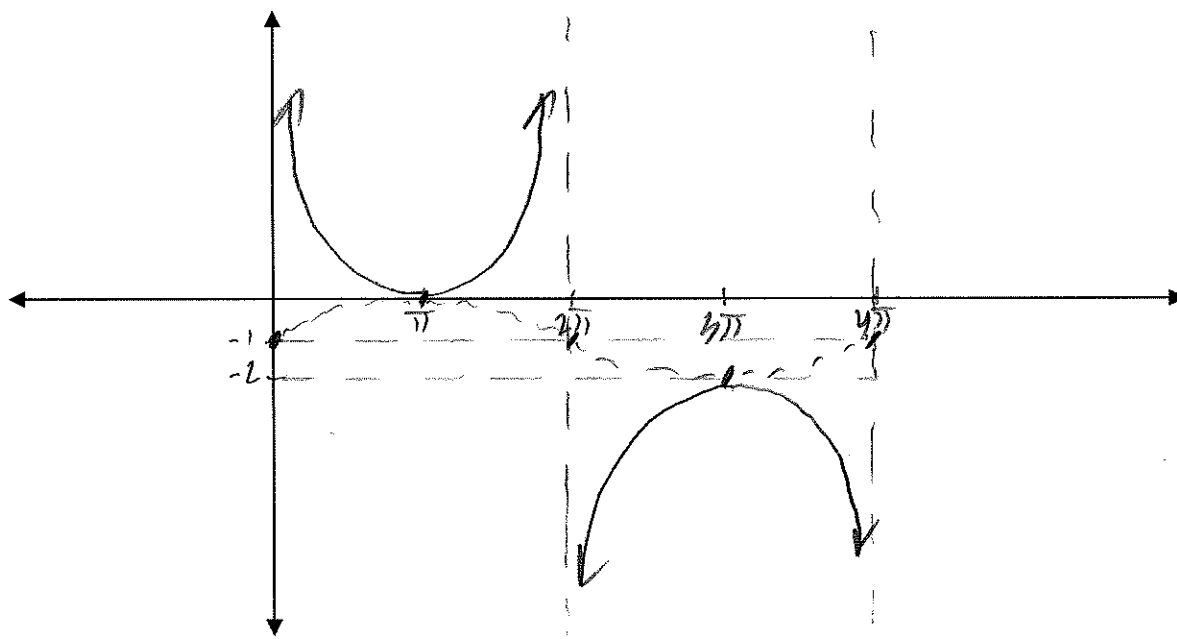
a. $y = 2\sec(x) + 3$ $2\cos x + 3$



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

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

$P = \frac{2\pi}{\frac{1}{2}} = 4\pi$ $C = \frac{4\pi}{9} = \pi$



4.6 – Even More Graphing Practice!

3. Graph the following equations from -2π to 2π

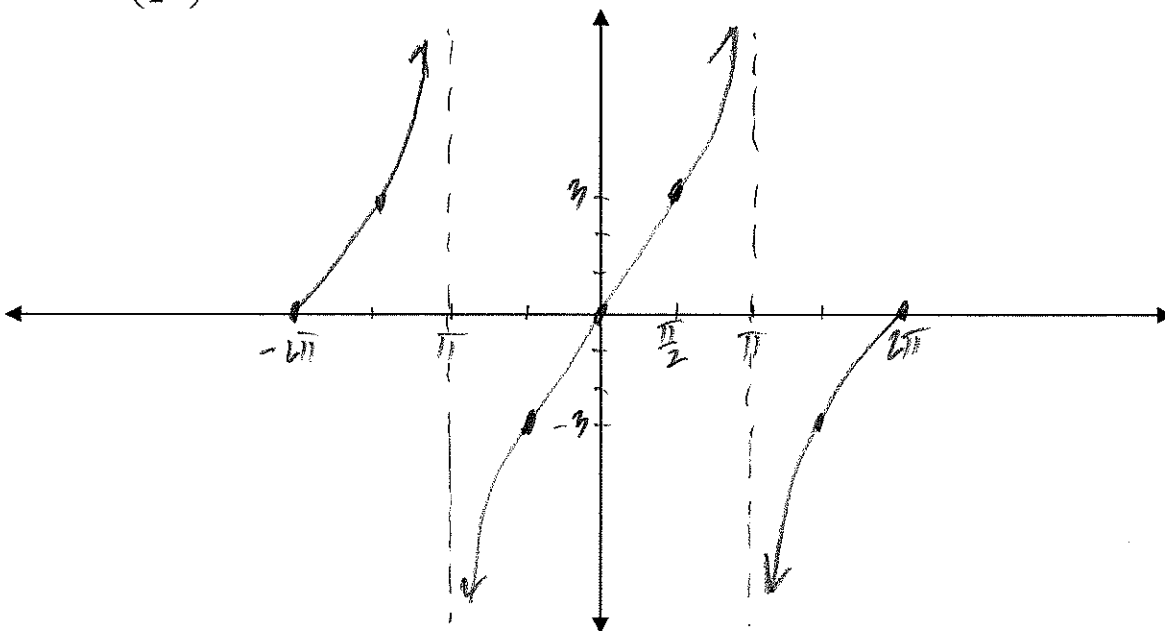
$$\frac{1}{2}x = \frac{\pi}{2}$$

$$x = \pi$$

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

$$x = -\pi$$

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



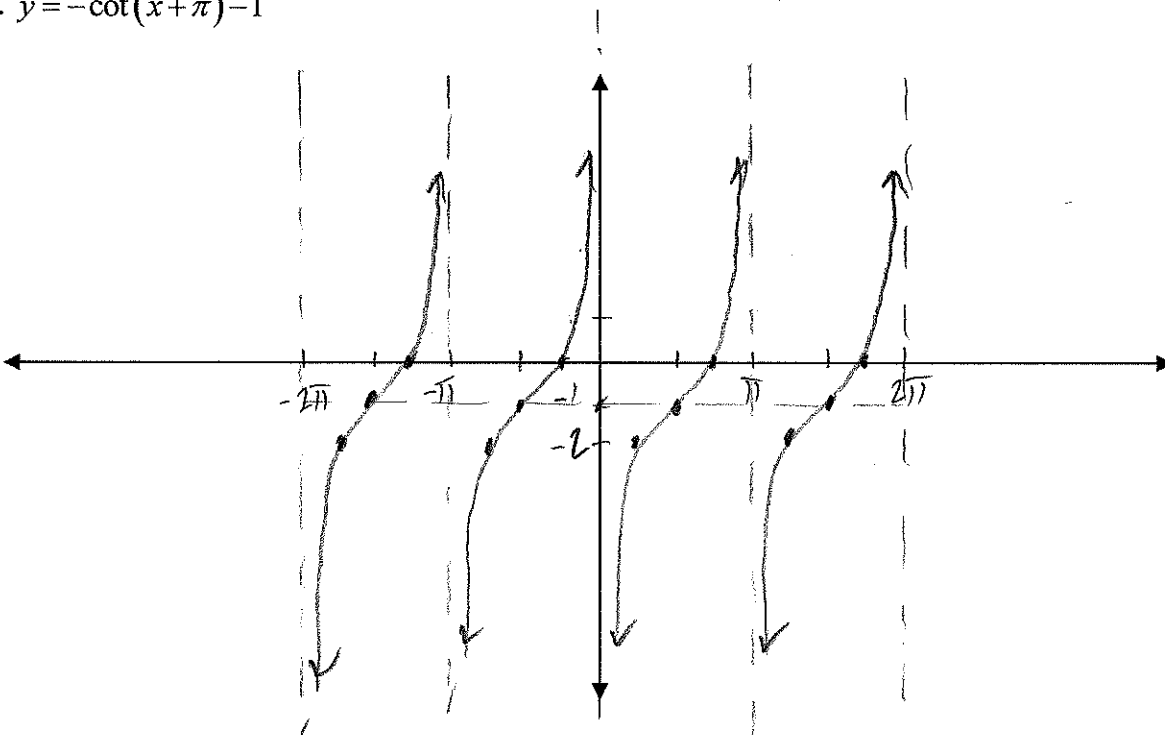
b. $y = -\cot(x + \pi) - 1$

$$x + \pi = 0$$

$$x = -\pi$$

$$x + \pi = \pi$$

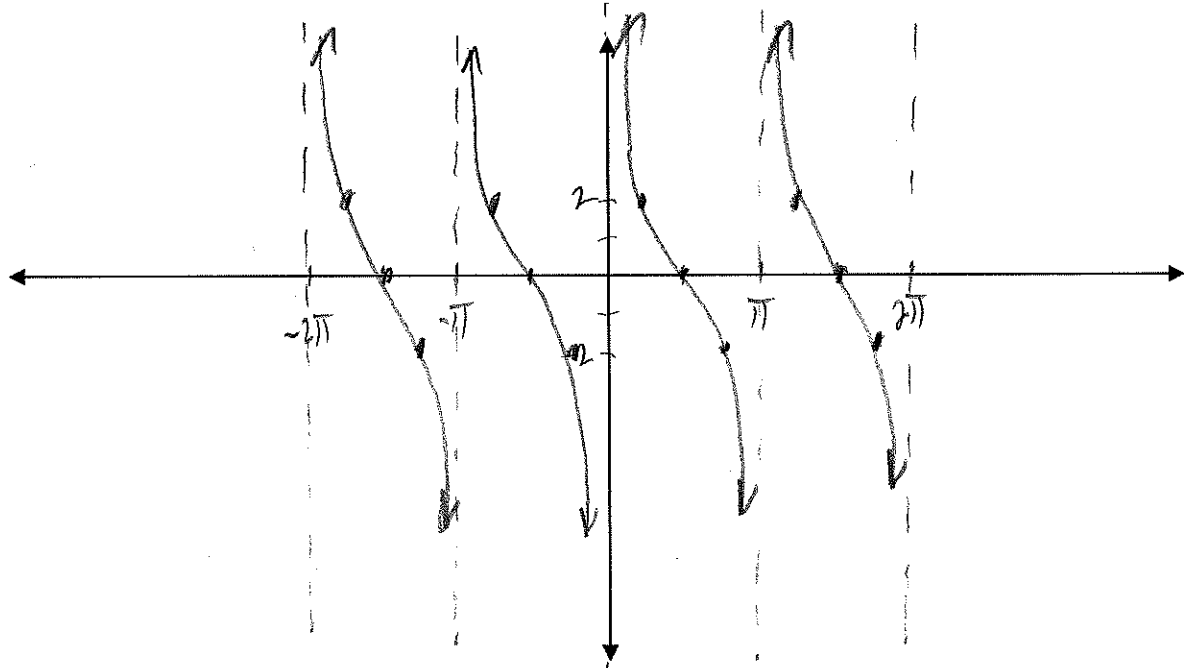
$$x = 0$$



4.6 – Even More Graphing Practice!

4. Graph the following equations from -2π to 2π

a. $y = -2 \tan\left(x + \frac{\pi}{2}\right)$



8. $y = \cot(2x) + 3$

