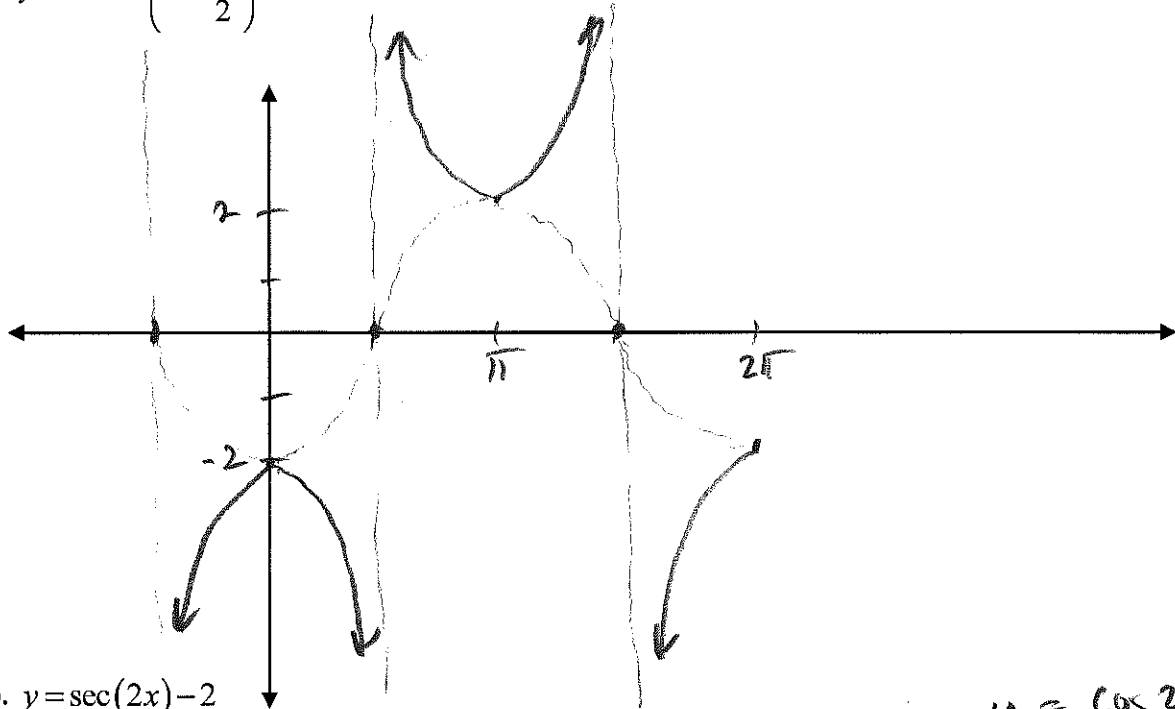


4.6 – Even More Graphing Practice!

1. Graph the following equations from 0 to 2π

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

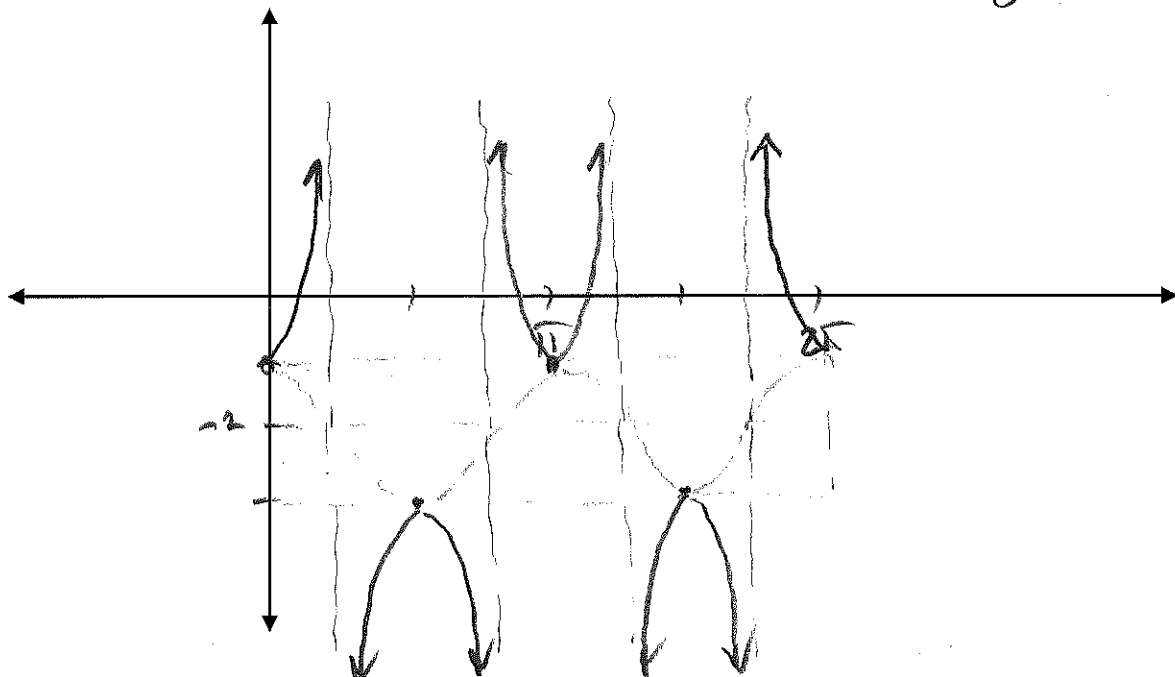
$$y = -2 \sin\left(x + \frac{\pi}{2}\right)$$



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

$$y = \cos 2x - 2$$

$P = \pi$

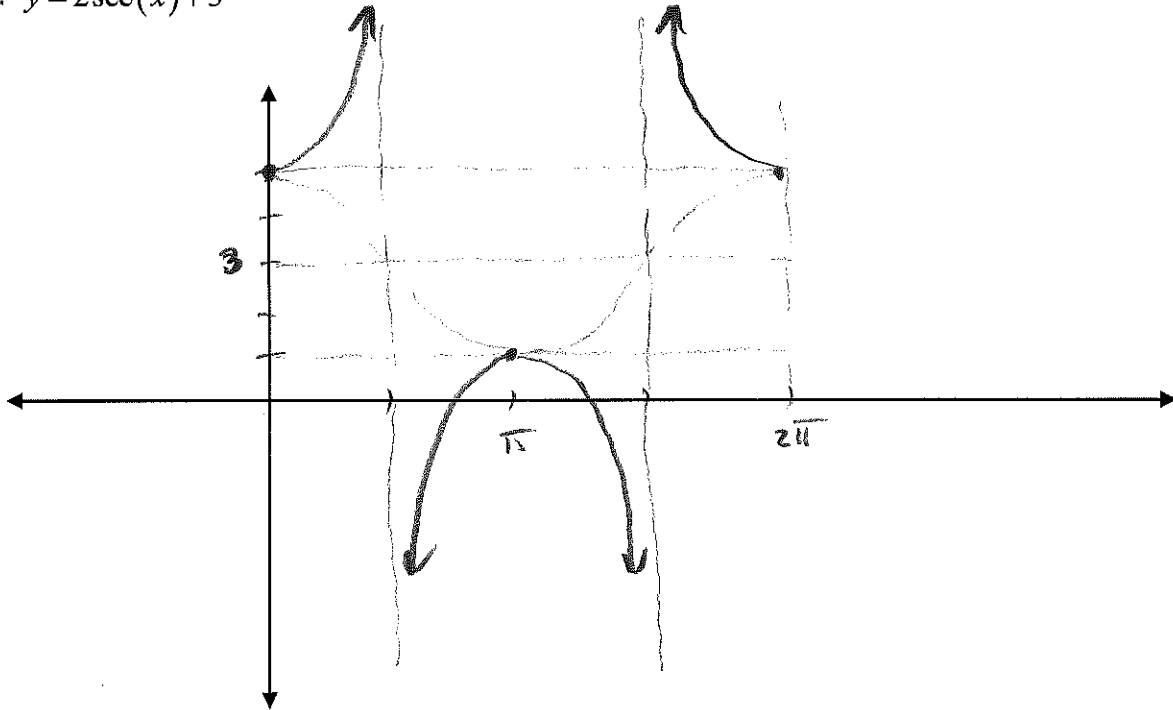


4.6 – Even More Graphing Practice!

2. Graph the following equations from 0 to 2π

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

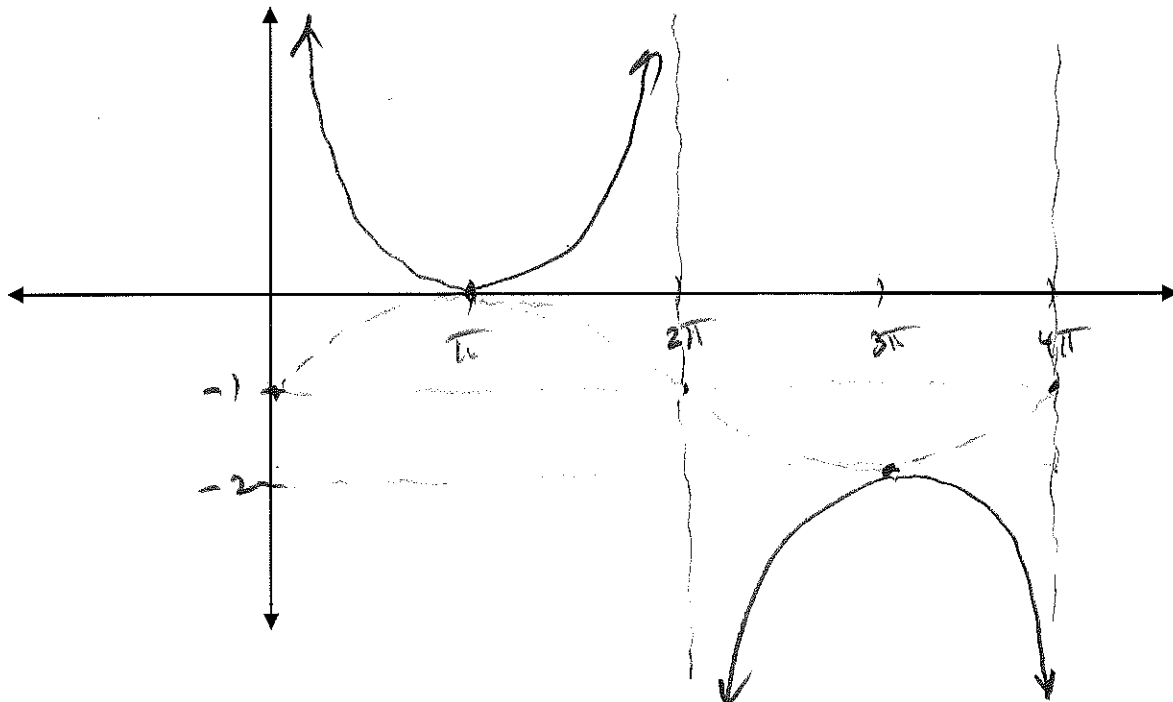
$$y = 2\cos x + 3$$



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

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

$$P = 4\pi$$



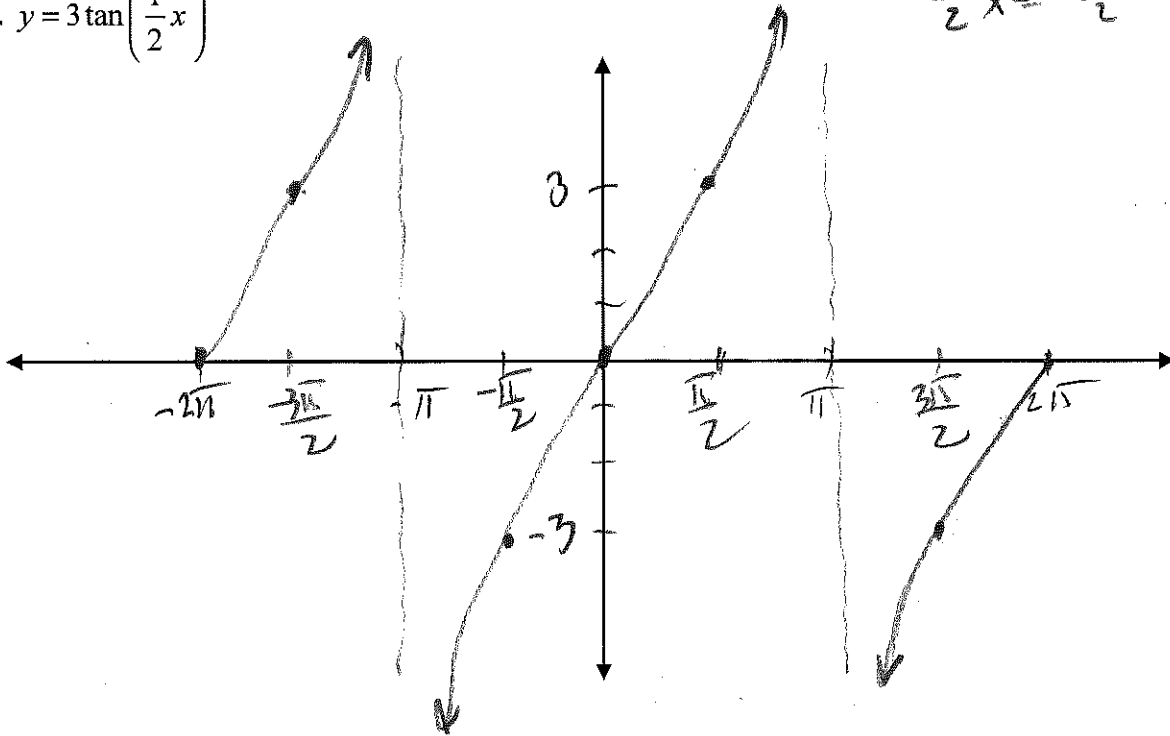
4.6 – Even More Graphing Practice!

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

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

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

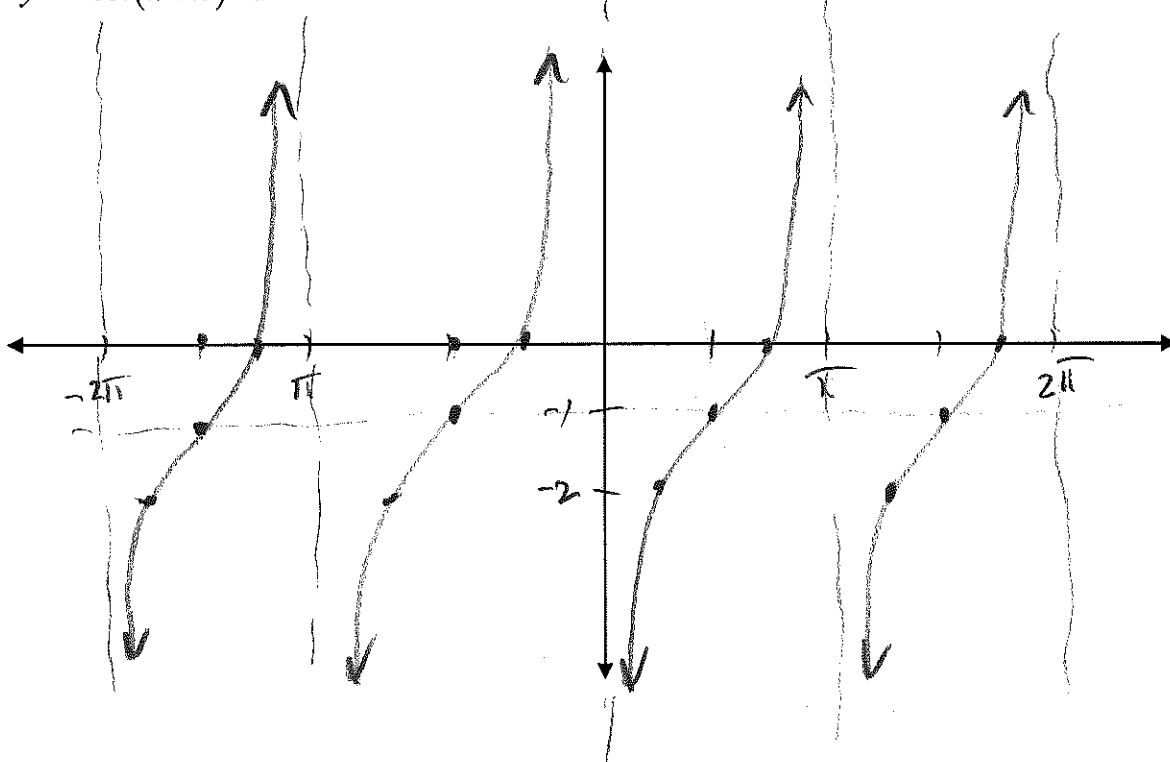
$$\frac{1}{2}x = -\frac{\pi}{2} \Rightarrow x = -\pi$$



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

$$x + \pi = 0 \Rightarrow x = -\pi$$

$$x + \pi = \pi \Rightarrow x = 0$$



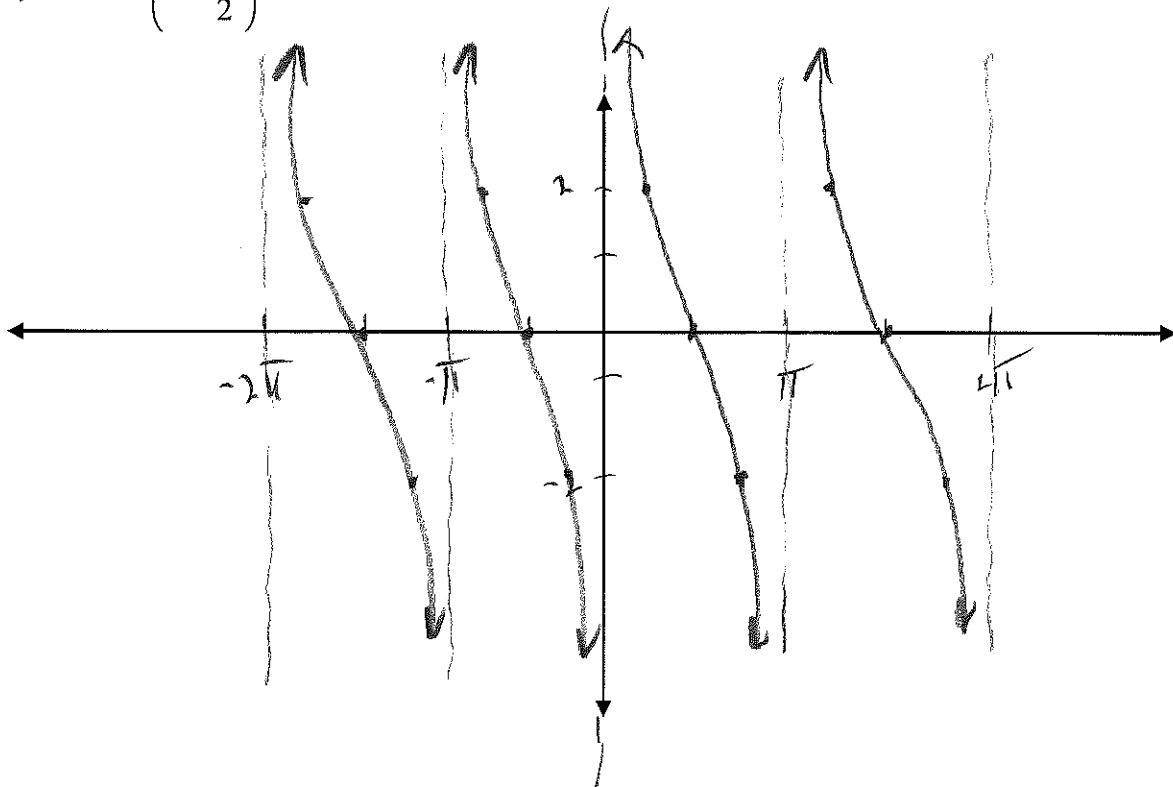
4.6 – Even More Graphing Practice!

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

$$x + \frac{\pi}{2} = \frac{\pi}{2} \Rightarrow x = 0$$

$$x + \frac{\pi}{2} = -\frac{\pi}{2} \Rightarrow x = -\pi$$

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



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

$$2x = 0 \Rightarrow x = 0$$

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

