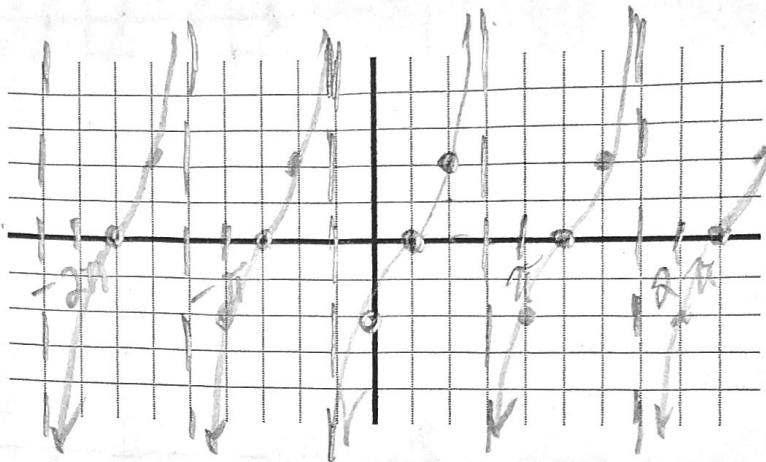


## Graphing Transformations of Tan, Sec, Cos, & Cot

Graph the function over two periods. Begin your graph at a horizontal shift (as required). Don't forget to label your axes.

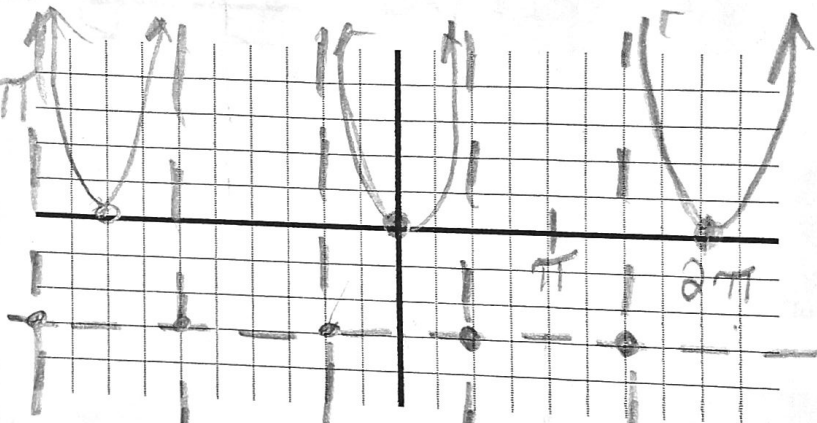
1)  $f(x) = 2 \tan\left(x - \frac{\pi}{4}\right)$

period =  $\pi$



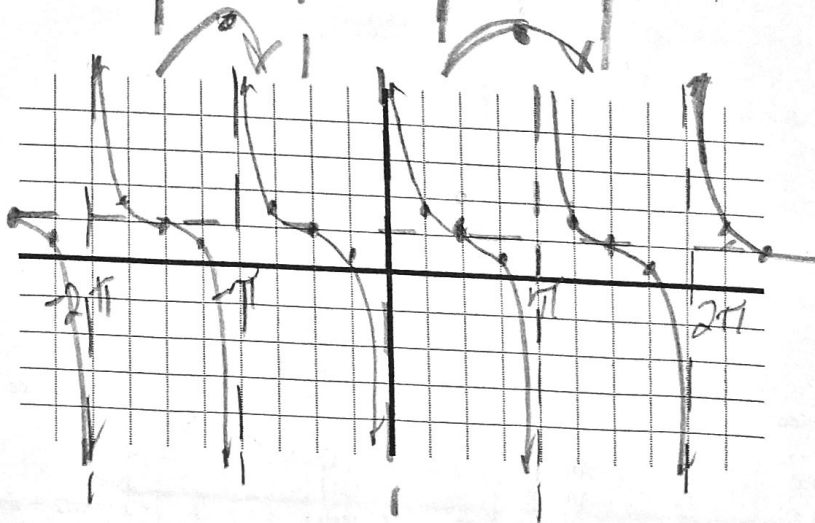
2)  $f(t) = 3 \sec t - 3$

period =  $2\pi$



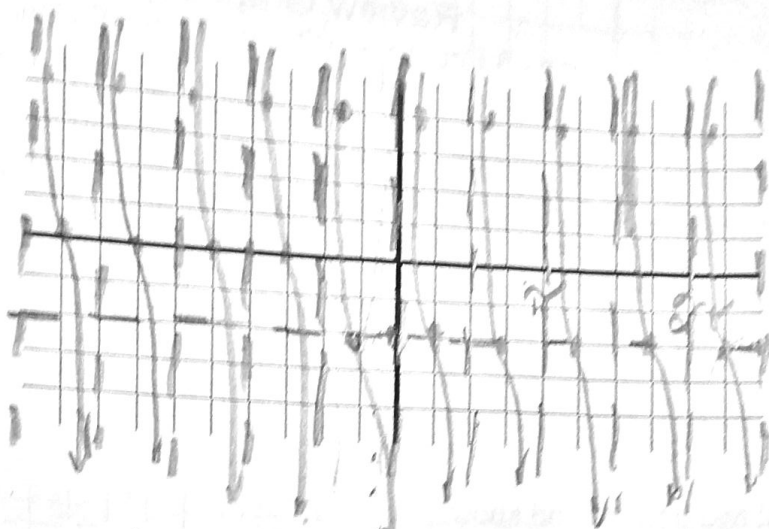
3)  $f(x) = \frac{1}{2} \cot x + 1$

pd =  $\pi$



$$4) g(x) = -6 \tan\left[2\left(x + \frac{\pi}{4}\right)\right] - 2$$

$$pd: \frac{\pi}{2}$$



$$5) f(t) = \csc(2t) + 2$$

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



$$6) h(x) = -\cot\left(x + \frac{1}{2}\pi\right)$$

$$\text{period: } \frac{\pi}{1} = \pi$$

$$\text{shift left } \frac{\pi}{2}$$

