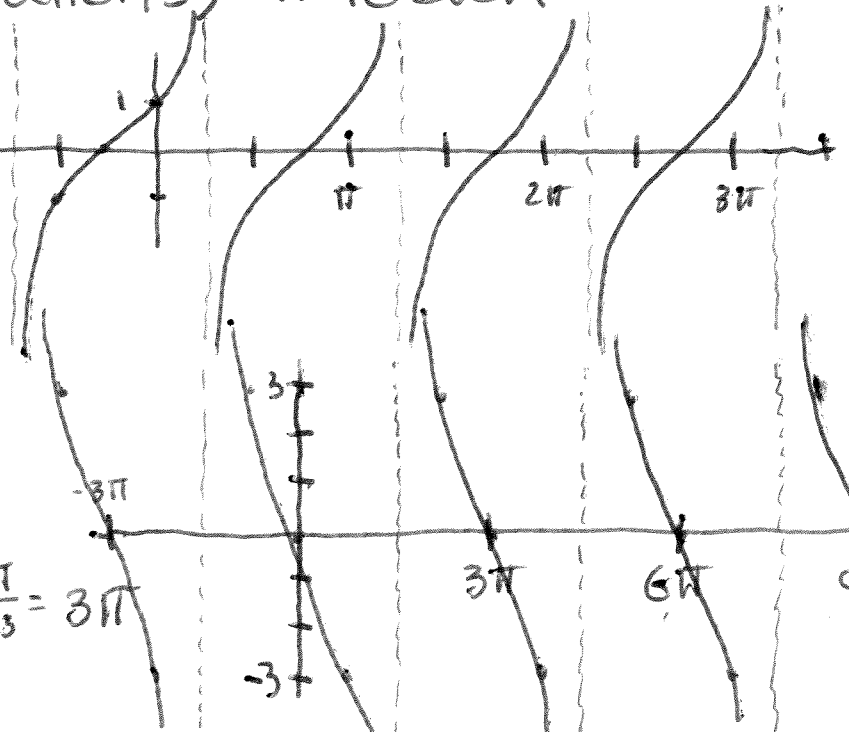


# 4.5 Assignment (Solutions) 2-16 even

2)  $y = \tan(x + \frac{\pi}{4})$

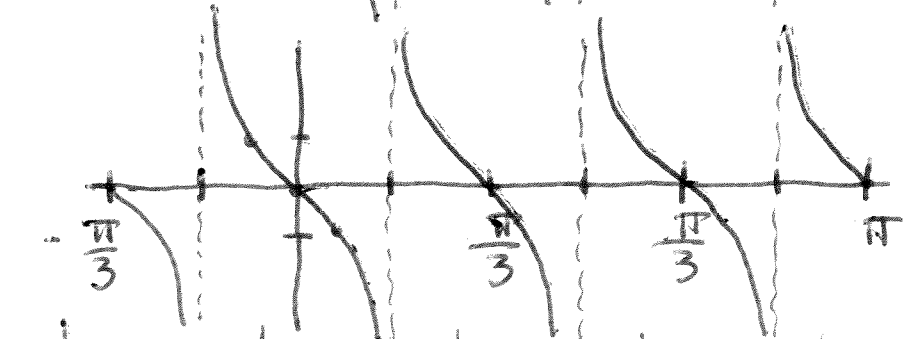
Phase =  $-\frac{\pi}{4}$   
 ↑  
 left



4)  $y = -3 \tan \frac{x}{3}$

flip ↑  
 amp ↑

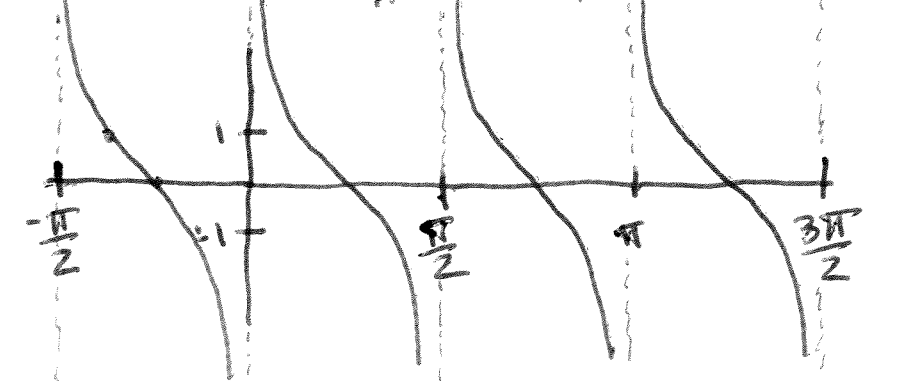
Period =  $\frac{\pi}{1/3} = 3\pi$



6)  $y = -\tan 3x$

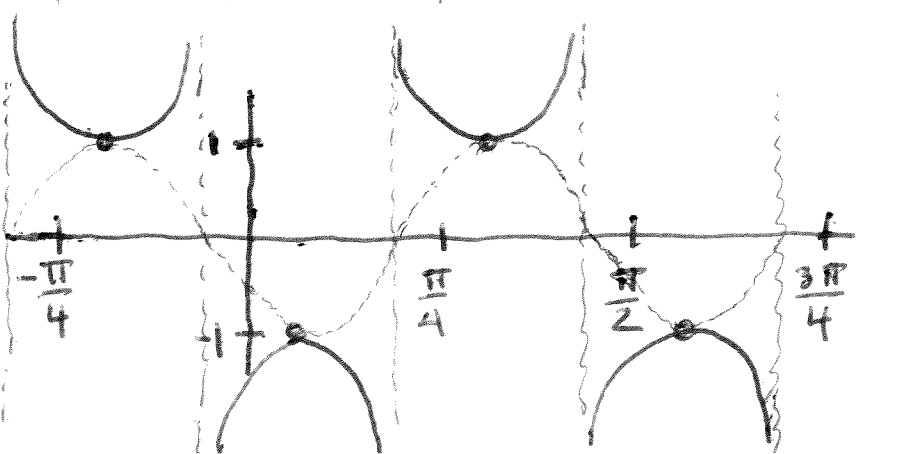
flip ↑

per =  $\frac{\pi}{3}$



8)  $y = \cot \frac{x}{2}$

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



10)  $y = \csc(4x + \frac{7\pi}{6})$

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

Phase =  $-\frac{7\pi}{6} = -\frac{7\pi}{24}$

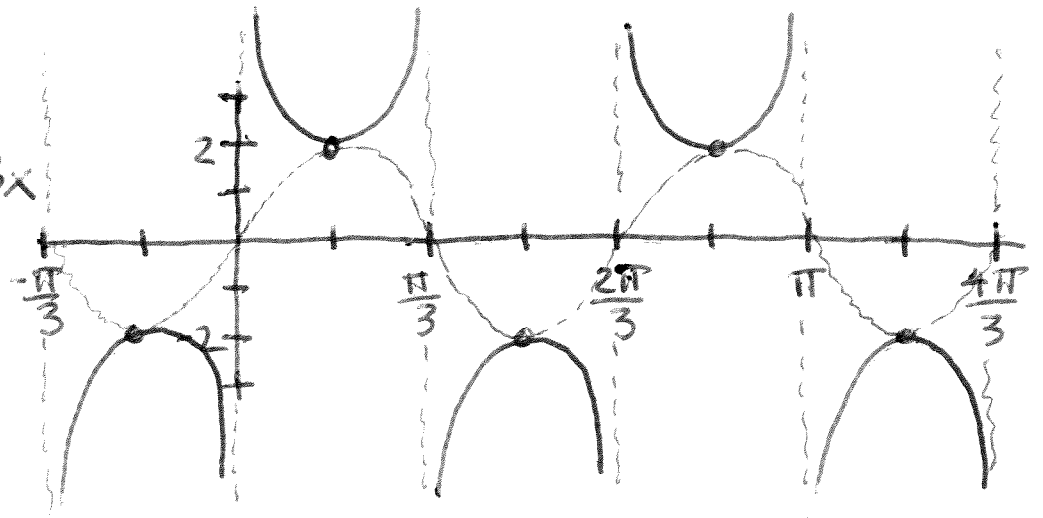


12)  $y = -2\csc 3x$

period:  $\frac{2\pi}{3}$

amp = 2

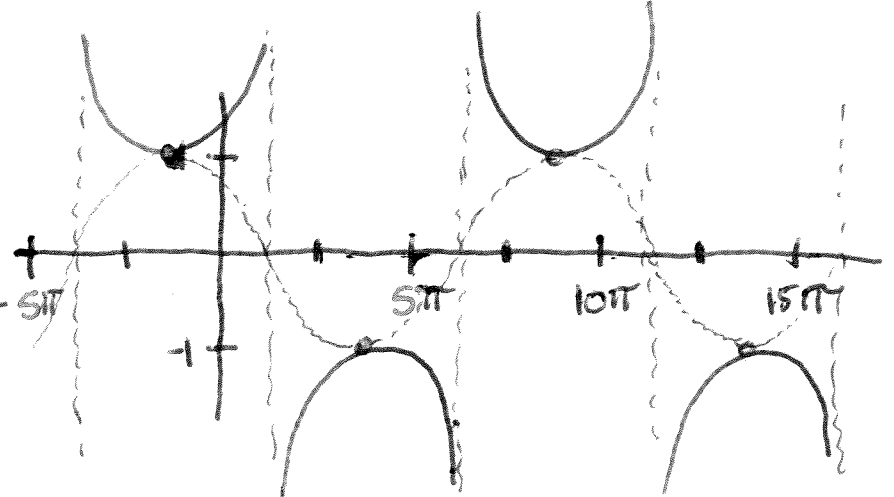
Flipped



14)  $y = \sec\left(\frac{x}{5} + \frac{\pi}{5}\right)$

period =  $\frac{2\pi}{1/5} = 10\pi$

Phase =  $-\frac{\pi/5}{1/5} = -\pi$



16)  $y = -\sec\frac{x}{8}$

flip

Period =  $\frac{2\pi}{1/8} = 16\pi$

