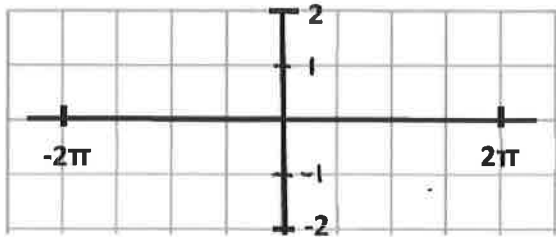


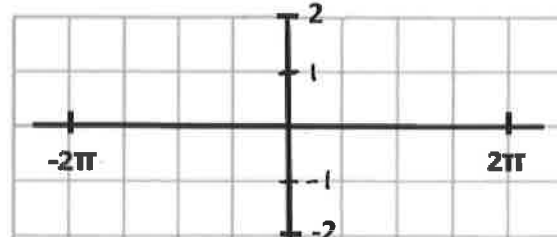
WARM-UP: 1. graph  $y = \sin x$   $-2\pi \leq x \leq 2\pi$



Evaluate:

- a.  $\sin(-2\pi)$
- b.  $\sin\left(-\frac{\pi}{2}\right)$
- c.  $\sin(0)$
- d.  $\sin\left(\frac{3\pi}{2}\right)$
- e.  $\sin\left(\frac{5\pi}{2}\right)$
- f.  $\sin\left(-\frac{7\pi}{2}\right)$

WARM-UP: 2. graph  $y = \cos x$   $-2\pi \leq x \leq 2\pi$

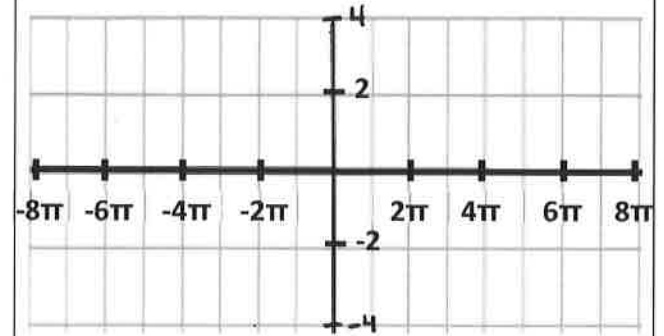


Evaluate:

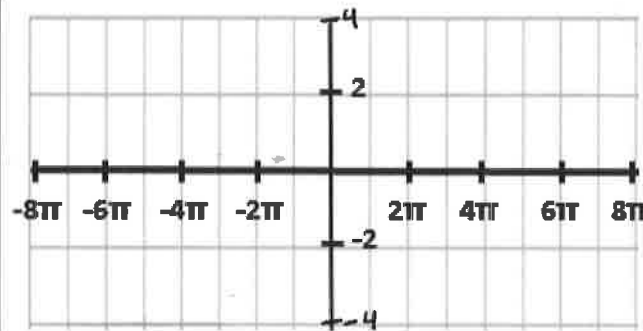
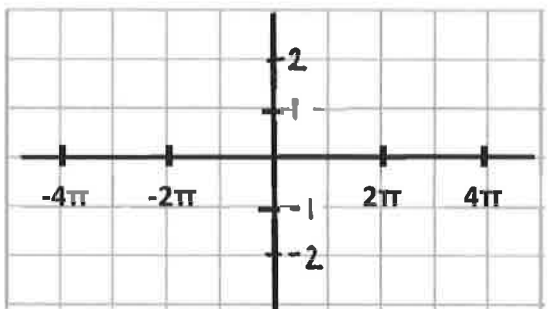
- a.  $\cos(-2\pi)$
- b.  $\cos\left(-\frac{\pi}{2}\right)$
- c.  $\cos(0)$
- d.  $\cos\left(\frac{3\pi}{2}\right)$
- e.  $\cos\left(\frac{5\pi}{2}\right)$
- f.  $\cos(-3\pi)$

Good practice for the graphing quiz!

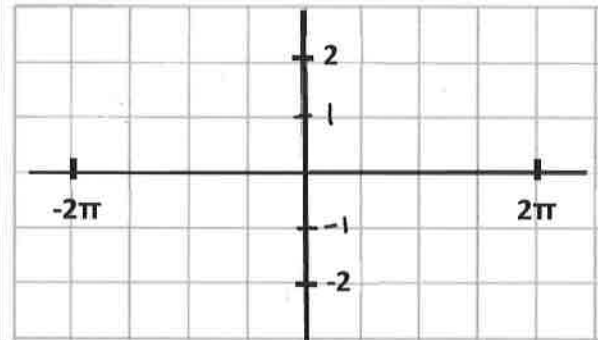
A.  $y = 2\sin\left(\frac{x}{4} - \frac{\pi}{2}\right) + 2$



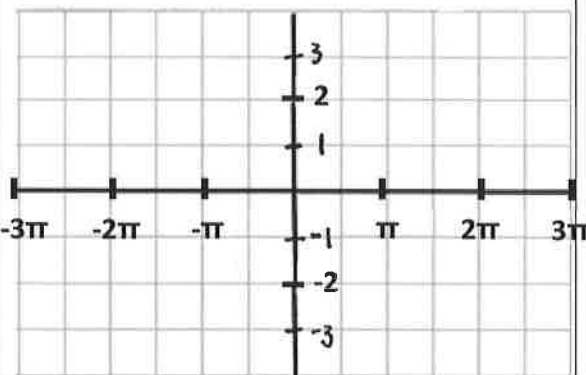
B.  $y = \tan\left(\frac{x}{2} - \frac{\pi}{4}\right) + 1$  ← Factor to find horizontal shift! → C.  $y = \sec\left(\frac{x}{3} + \frac{\pi}{6}\right) - 1$



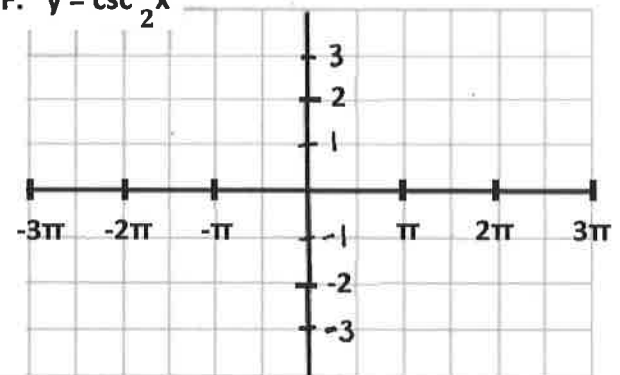
D.  $y = 2\cos\frac{x}{2}$



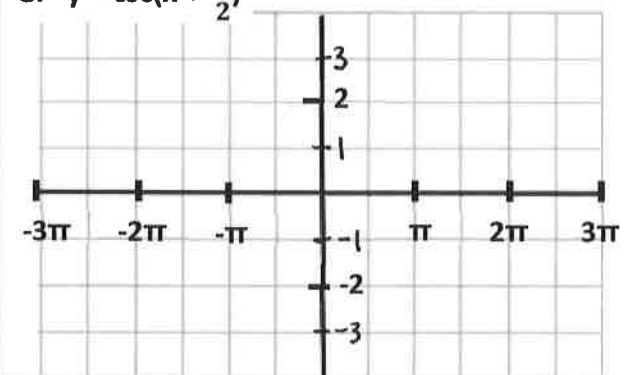
E.  $y = -2\csc x$



F.  $y = \csc\frac{1}{2}x$



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



5.4 (part 2) #14, 20, 46, 47, 52, 58

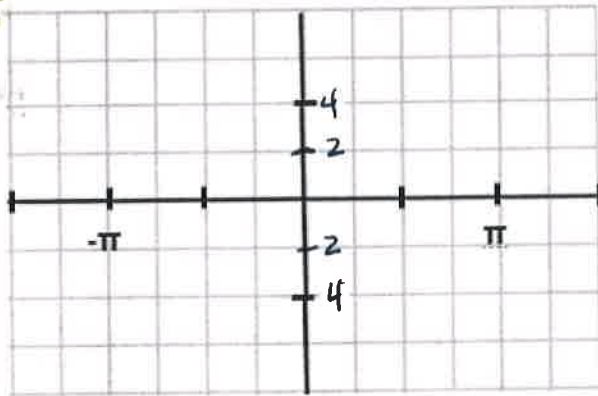
Reminder: Be sure to factor before identifying the horizontal (phase) shift!

$\tan x, \cot x \rightarrow \text{per} = \frac{\pi}{k}$   
 $\sin x, \cos x, \csc x, \sec x \rightarrow \text{per} = \frac{2\pi}{k}$

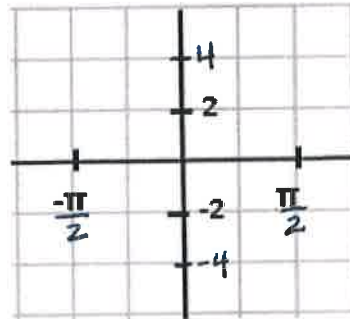
NAME:

PER:

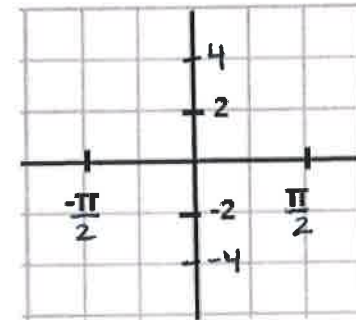
14. equation:



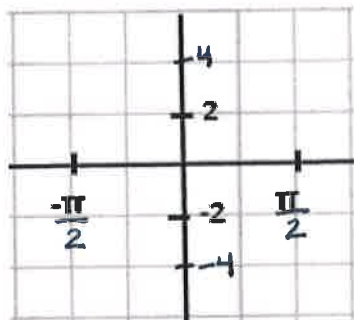
20. equation:



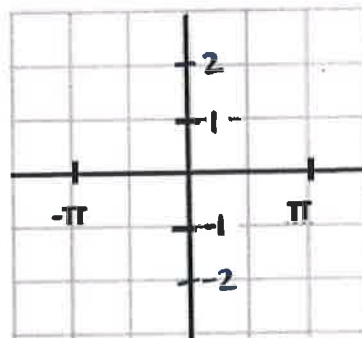
46. equation:



47. equation:



52. equation:



58. equation:

