

Review:

Find the exact value of the following.

a. $\cos 270^\circ$



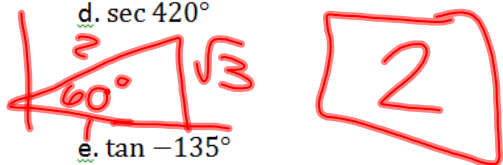
b. $\sin -225^\circ$



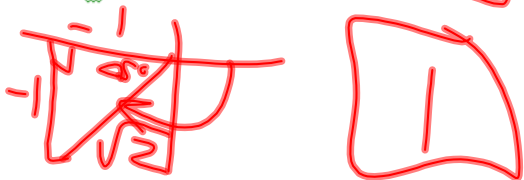
c. $\csc 315^\circ$



d. $\sec 420^\circ$

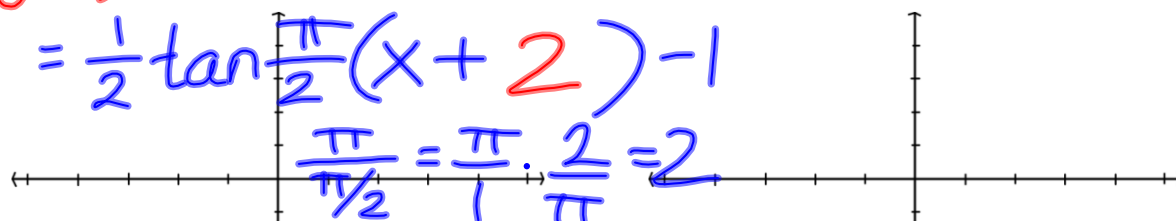


e. $\tan -135^\circ$

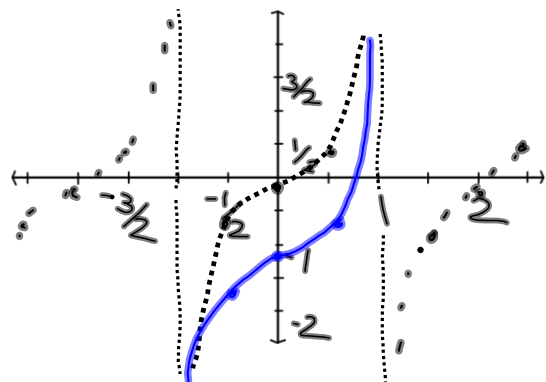


$$y = \frac{1}{2} \tan\left(\frac{\pi}{2}x + \pi\right) - 1$$

$$= \frac{1}{2} \tan\frac{\pi}{2}(x + 2) - 1$$



"amp": $\frac{1}{2}$ period: $\frac{\pi}{\pi/2} = \frac{\pi}{1} \cdot \frac{2}{\pi} = 2$
 h. shift: left 2 ; v. shift: down 1



period = 2
 h. shift left 2

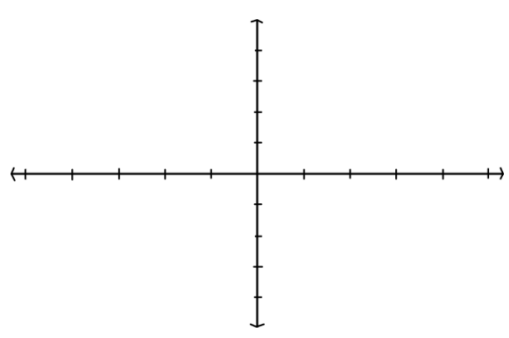
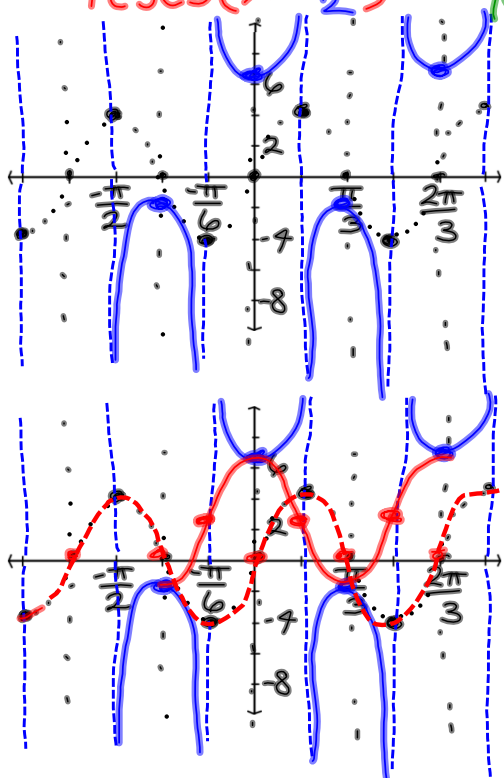
$y = 4\csc(3x - \frac{3\pi}{2}) + 2$ "amp": 4
 $= 4\csc(3(x - \frac{\pi}{2})) + 2$

h. shift: right $\frac{\pi}{2}$
 3 ticks
 v. shift: up 2
 1 tick

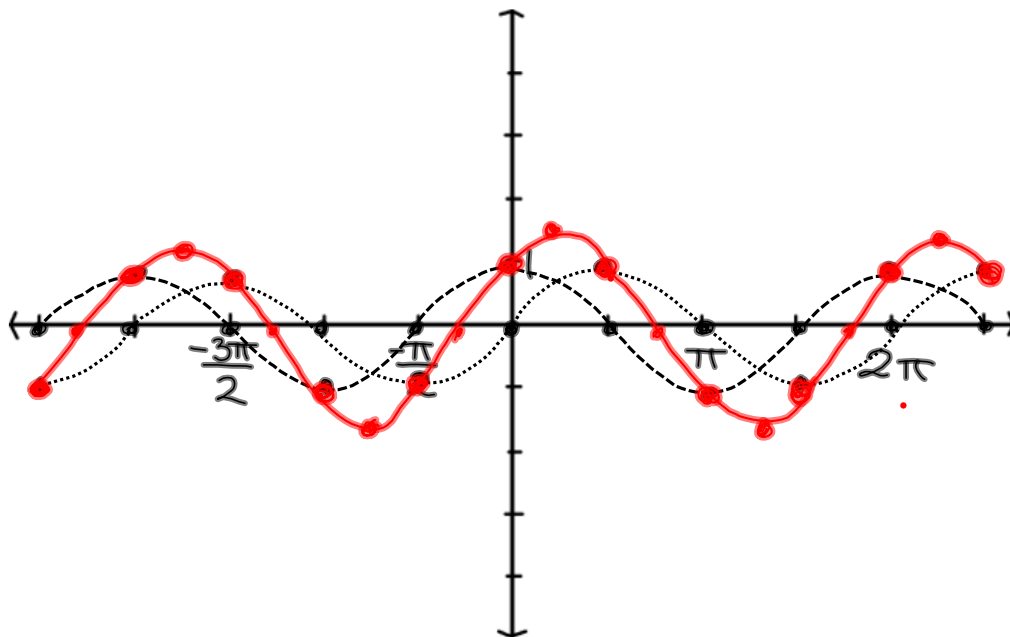
per: $\frac{2\pi}{3}$

$y = 4\sec(3x) + 2$

has same graph

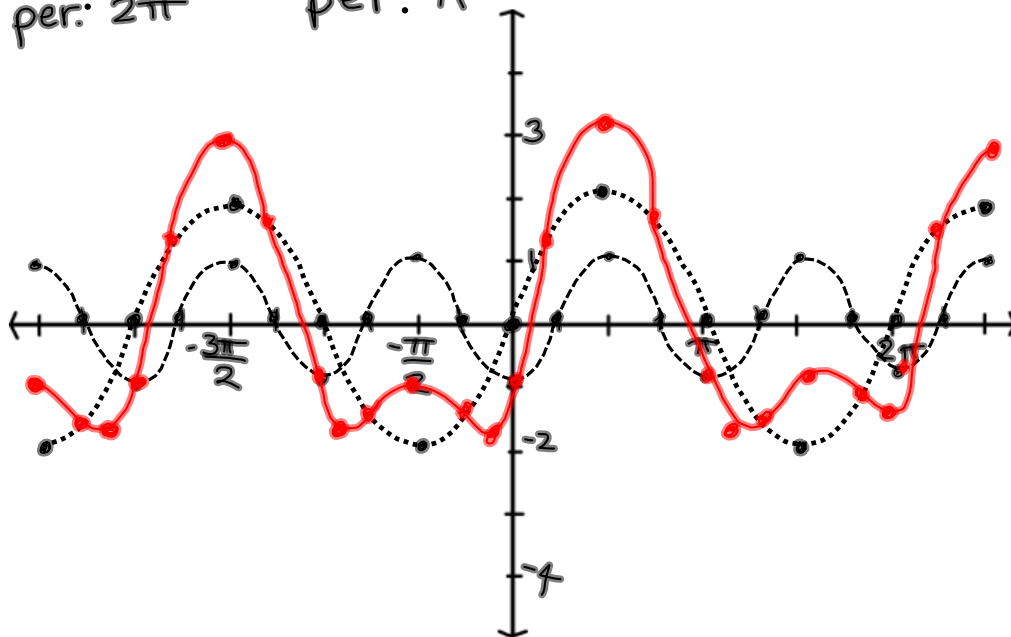


$y = \sin x + \cos x$



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

amp: 2 amp: 1
 per: 2π per: π



Homework: Graphing worksheet #49-60

