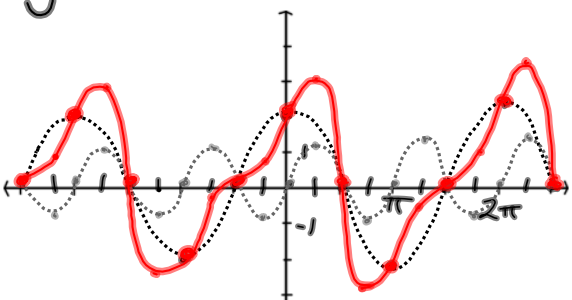
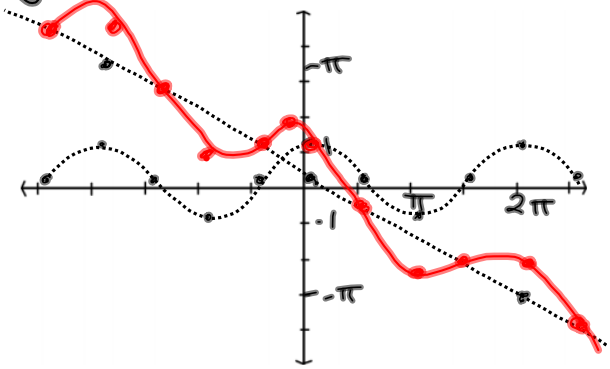
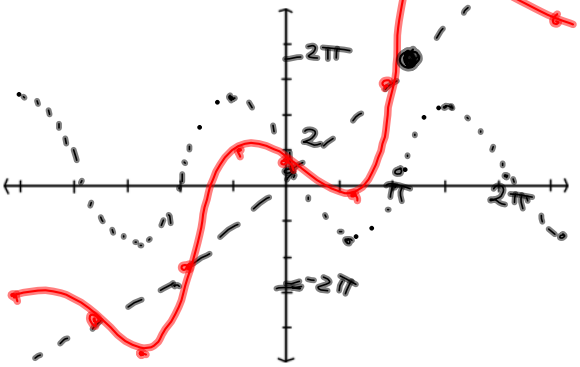
$y = 2\cos x + \sin 2x$ amp 2, per 2π amp 1, per π

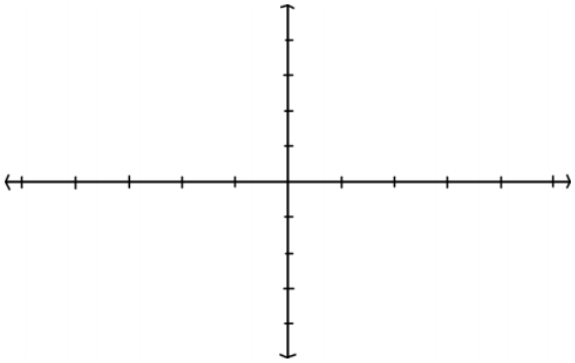


$y = \cos x - \frac{1}{2}x$

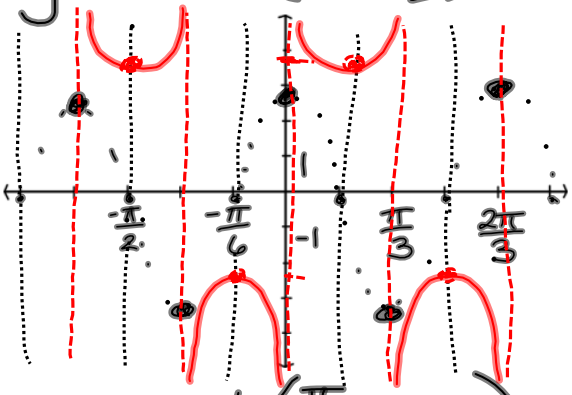


$y = 2x - 4\sin x$





$y = 3\sec\left(3x - \frac{\pi}{2}\right) + 1 = 3\sec 3\left(x - \frac{\pi}{6}\right) + 1$



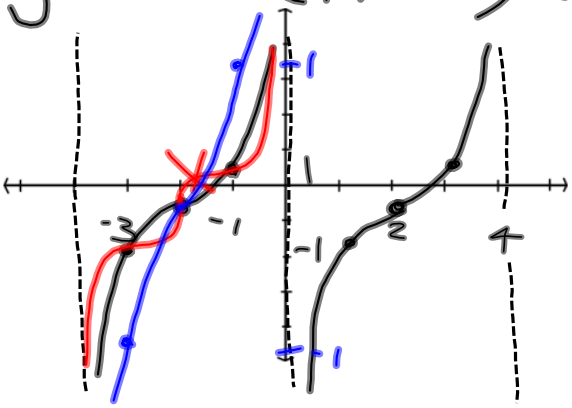
amp: 3

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

h. shift: $\frac{-\pi/2}{3} = \frac{\pi}{6}$ right

V. shift: up 1

$y = -\cot\left(\frac{\pi}{4}x + \pi\right) = -\cot\frac{\pi}{4}(x + 4)$



amp: 1

per: $\frac{\pi}{\pi/4} = 4$

h. shift: left 4

V. shift: none