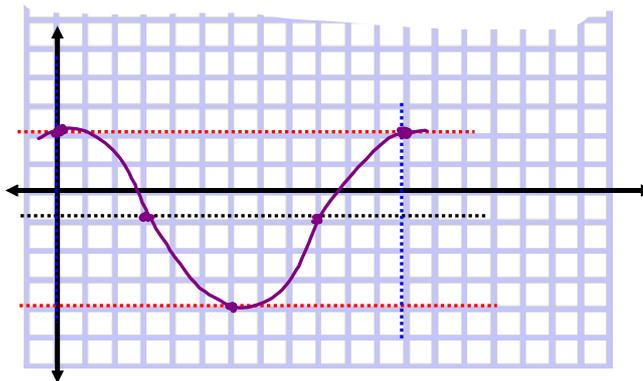


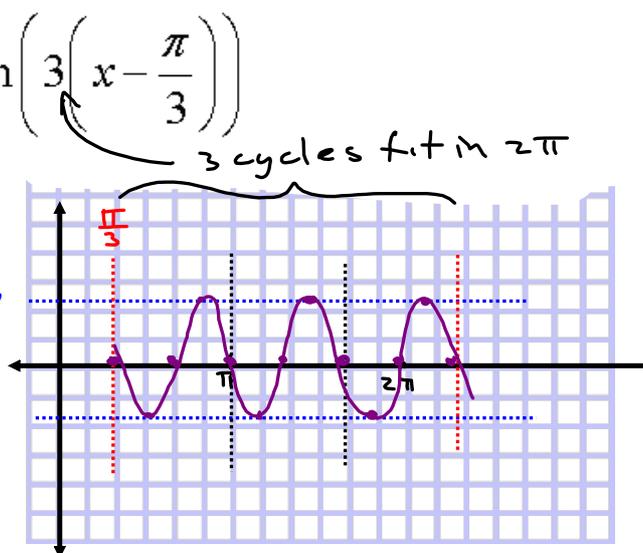
Example 1: Graph $y = 3\cos(x) - 1$

amp = 3
 no phase shift
 $T = 2\pi$
 V.D = -1



Example 2: Graph $y = -2\sin\left(3\left(x - \frac{\pi}{3}\right)\right)$

- amp 2
- vert. reflection means sin begins by going down
- no vert. displ.
- phase shift $\frac{\pi}{3}$
- $T = \frac{2\pi}{3}$



Example 3: Graph $y = 3 \sin \left(4 \left(x + \frac{\pi}{2} \right) \right) - 5$

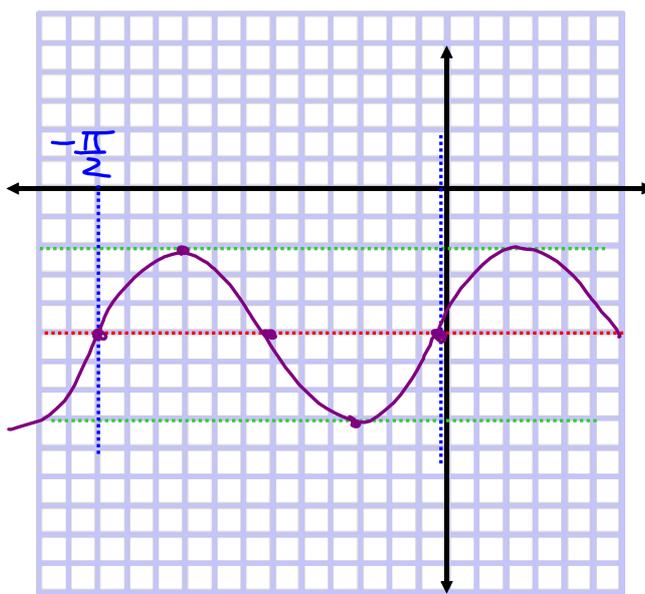
- rest axis $y = -5$

- amp = 3

- phase shift

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

$$-T = \frac{2\pi}{4} = \frac{\pi}{2}$$



Homework: Pg. 343 # 1, 6, 8cf, 9, 11, 14



Now... GO! You must!