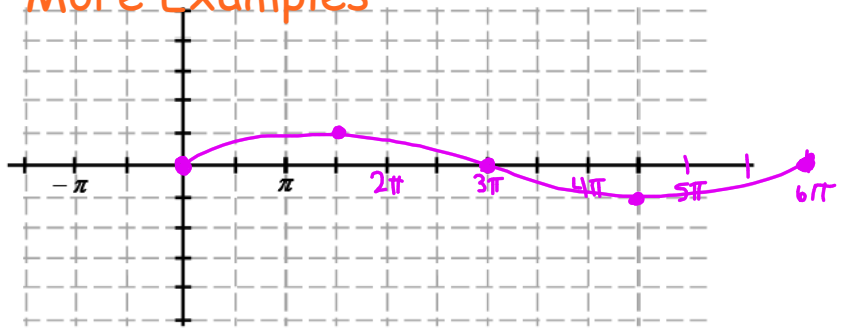
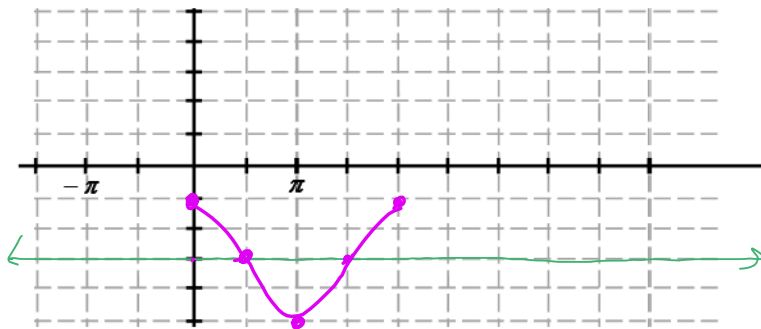


More Examples

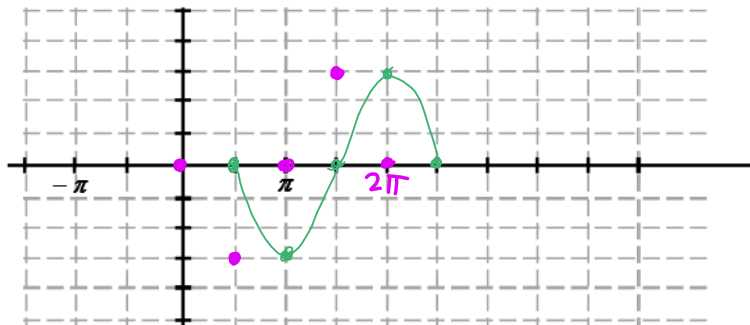
1. $y = \sin \frac{1}{3}x$
 Vert. Shift: _____
 Phase Shift: _____
 Amplitude: 1
 Period: $\frac{2\pi}{\frac{1}{3}} = 6\pi$
 Curve: \sin



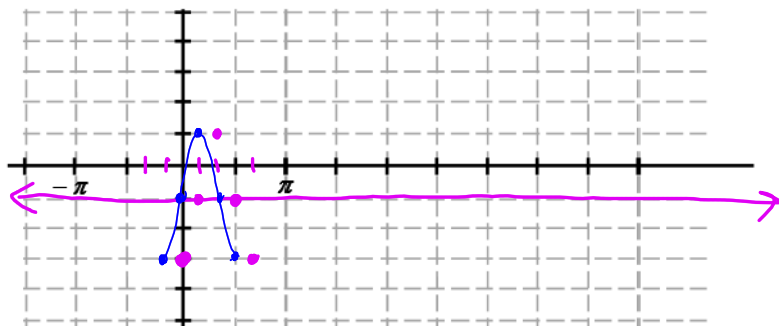
2. $y = 2 \cos x - 3$
 Vert. Shift: down 3
 Phase Shift: _____
 Amplitude: 2
 Period: 2π
 Curve: \cos



3. $y = -3 \sin \left(x - \frac{\pi}{2} \right)$
 Vert. Shift: _____
 Phase Shift: $\text{rt } \frac{\pi}{2} (90^\circ)$
 Amplitude: 3
 Period: 2π
 Curve: $-\sin$



4. $y = -2 \cos \left(3x + \frac{\pi}{2} \right) - 1$
 Vert. Shift: down 1
 Phase Shift: left 30°
 Amplitude: 2
 Period: $\frac{2\pi}{3} (120^\circ)$
 Curve: $-\cos$



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