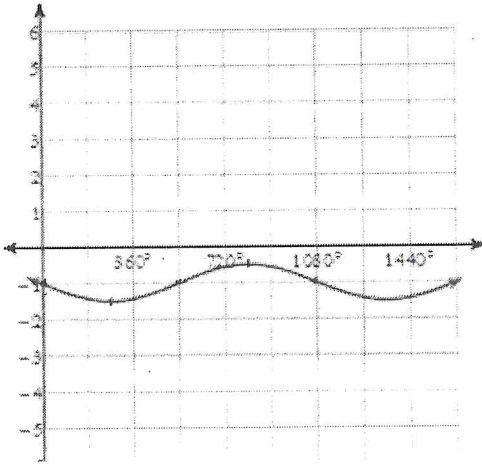


Write a function for each graph.

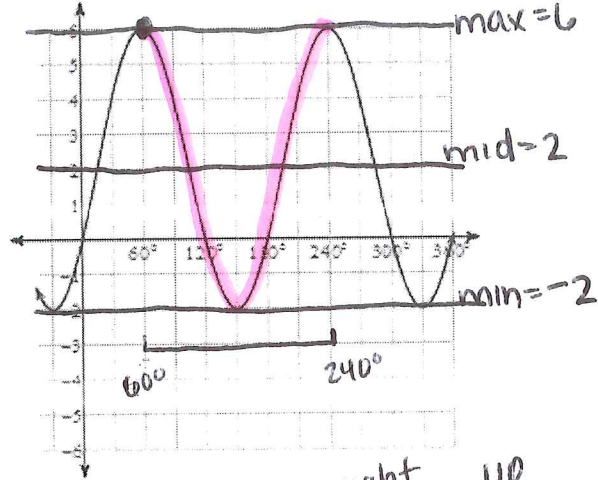
1. sin



Amp: $\frac{1}{2}$ Per: 1080° PS: none VS: $\frac{\text{down}}{1}$
 ($360 \cdot 3$)

$$y = -\frac{1}{2} \sin\left(\frac{\theta}{3}\right) - 1$$

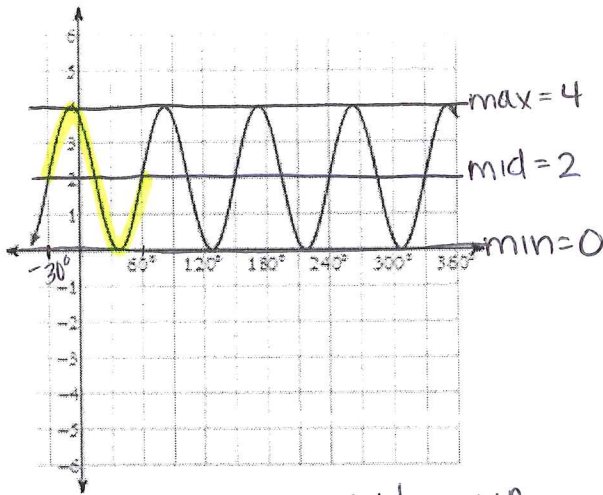
2. cos



Amp: 4 Per: 180° PS: $\frac{\text{right}}{60^\circ}$ VS: $\frac{\text{up}}{2}$
 ($\frac{360^\circ}{2}$)

$$y = 4 \cos(2\theta - 60^\circ) + 2$$

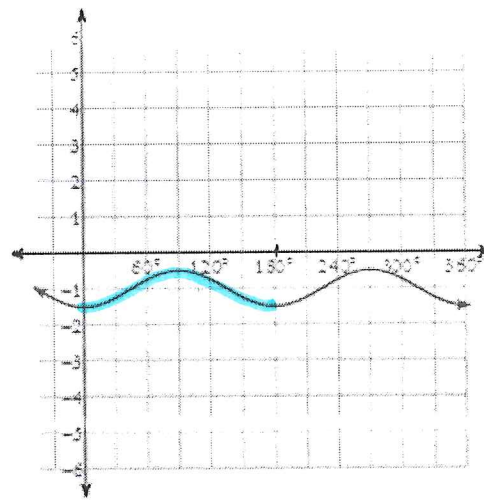
3. sin



Amp: 2 Per: 90° PS: $\frac{\text{left}}{30^\circ}$ VS: $\frac{\text{up}}{2}$
 ($\frac{360^\circ}{4}$)

$$y = 2 \sin(4\theta + 30^\circ) + 2$$

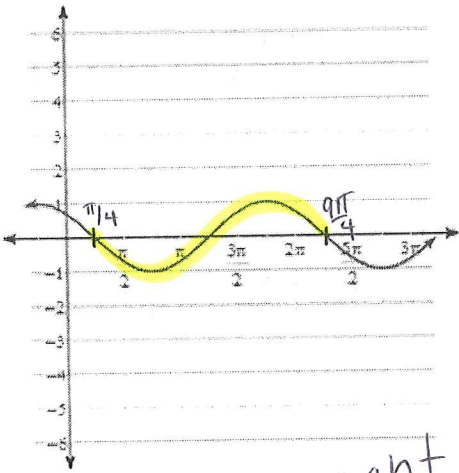
4. cos



Amp: $\frac{1}{2}$ Per: 180° PS: none VS: $\frac{\text{down}}{1}$
 ($\frac{360^\circ}{2}$)

$$y = -\frac{1}{2} \cos(2\theta) - 1$$

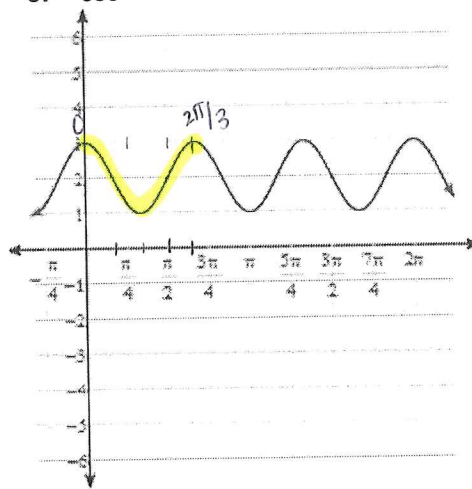
5. sin



Amp: 1 Per: 2π PS: $\pi/4$ vs: right none

$$y = \sin(\theta - \pi/4)$$

6. cos



Amp: 1 Per: $\frac{2\pi}{3}$ PS: none vs: up 2
($\frac{2\pi}{3}$)

$$y = \cos 3\theta + 2$$