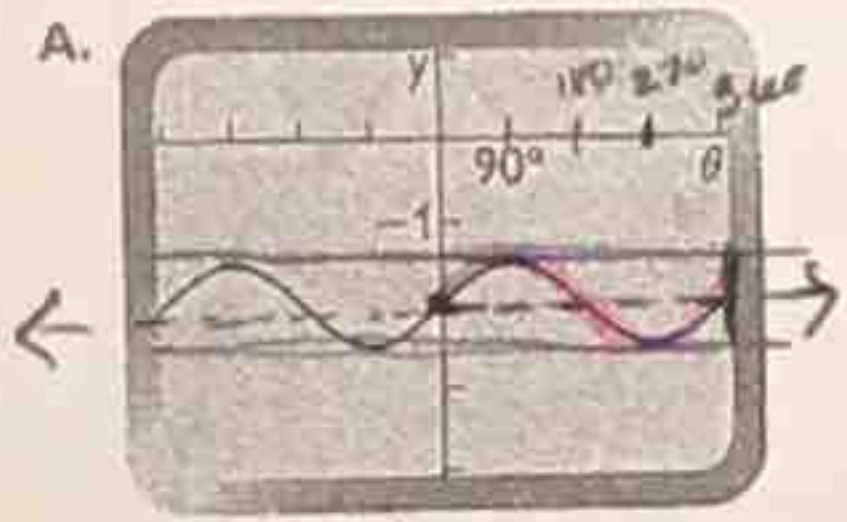
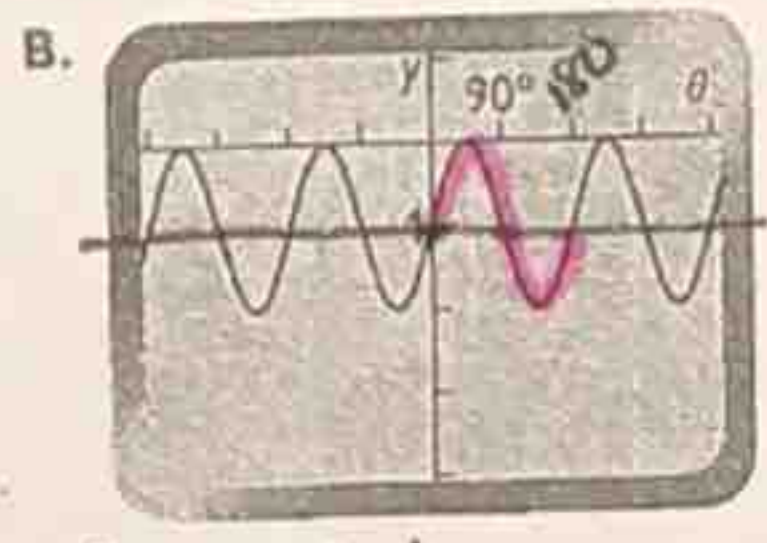


Name key

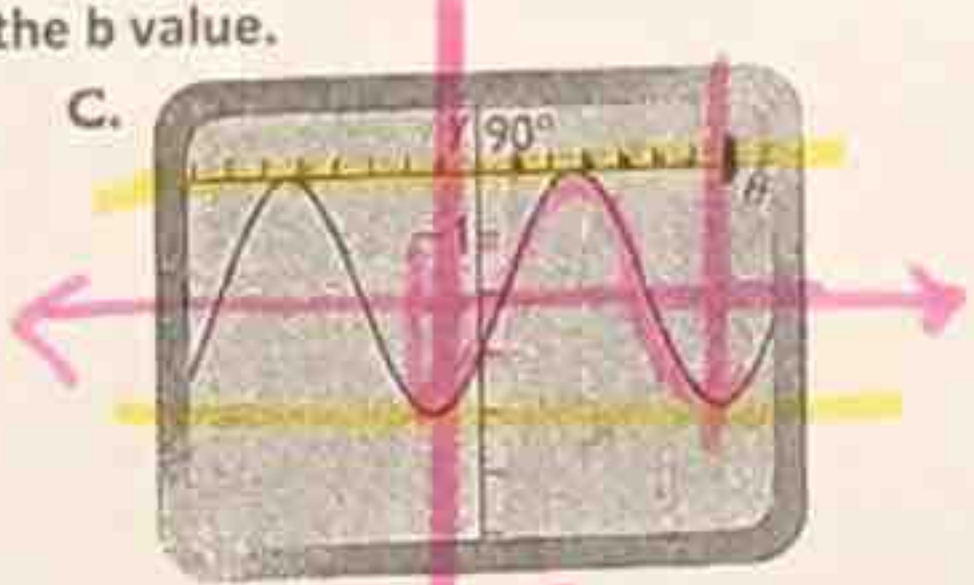
1. Determine the amplitude and period of each function, then state the b value.



Amp:  $\frac{1}{2}$   
Period:  $360^\circ$

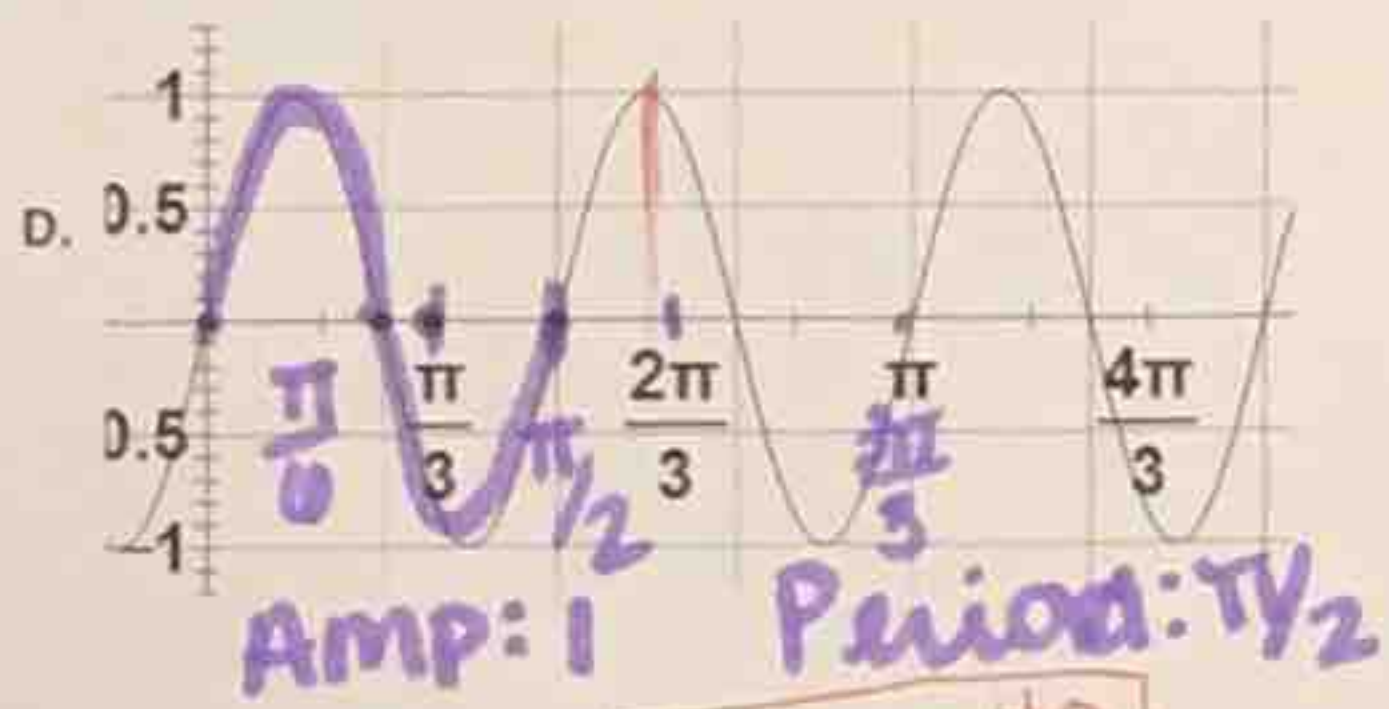


Amp: 1  
Period:  $180^\circ$



Amp: 2  
Period:  $720^\circ$

$5 \sin \frac{1}{2}(\theta + 75) + 6$   
 $5 \cos \frac{1}{2}(\theta + 30) + 6$



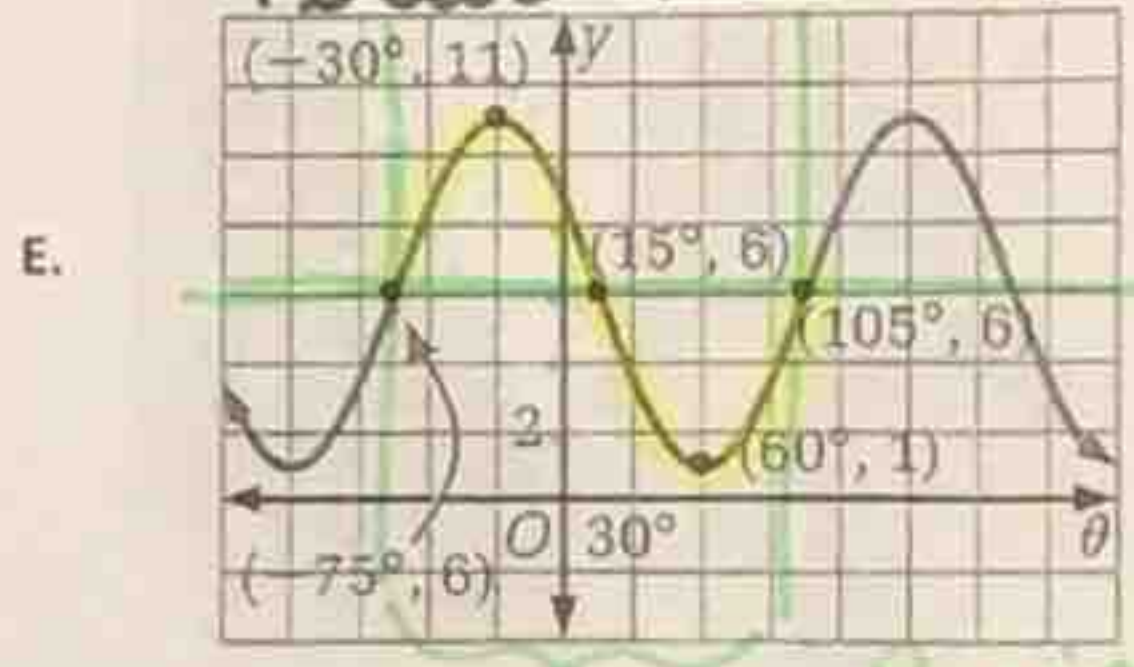
Amp: 1  
Period:  $\frac{\pi}{2}$

$y = \sin 4\theta$

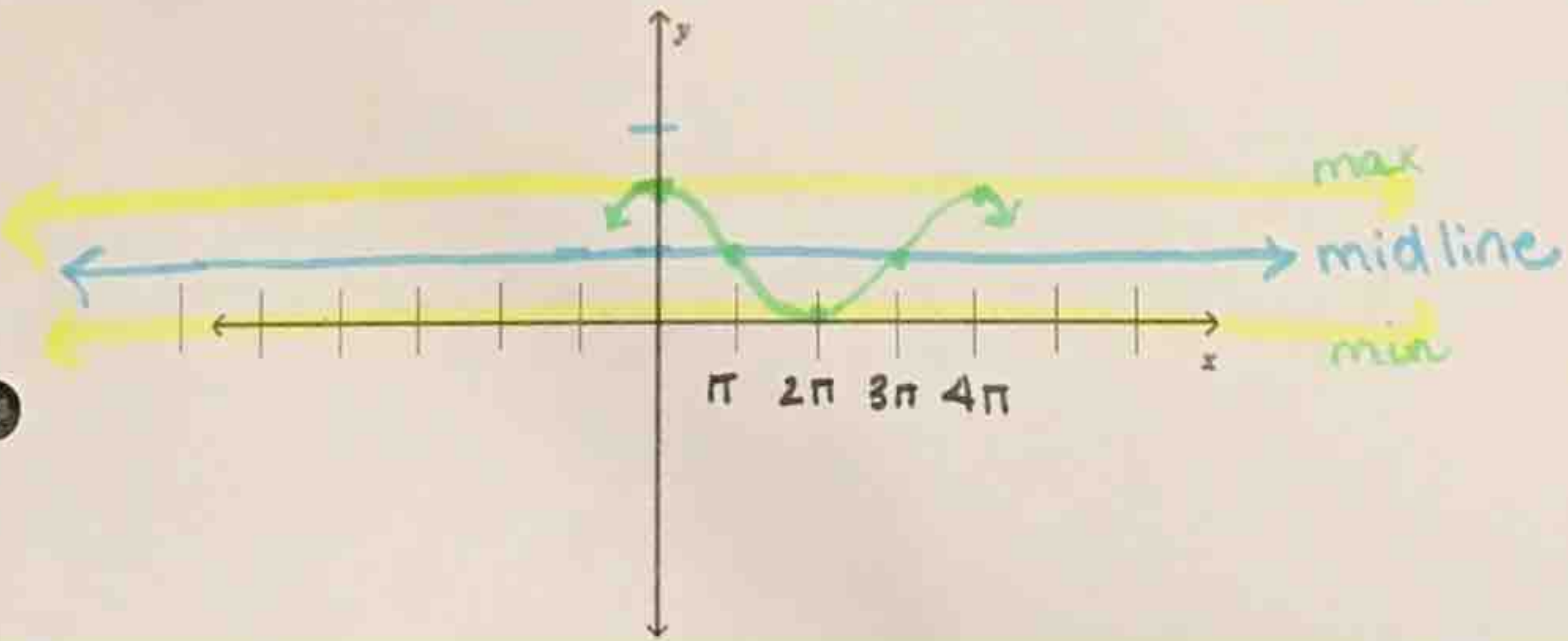
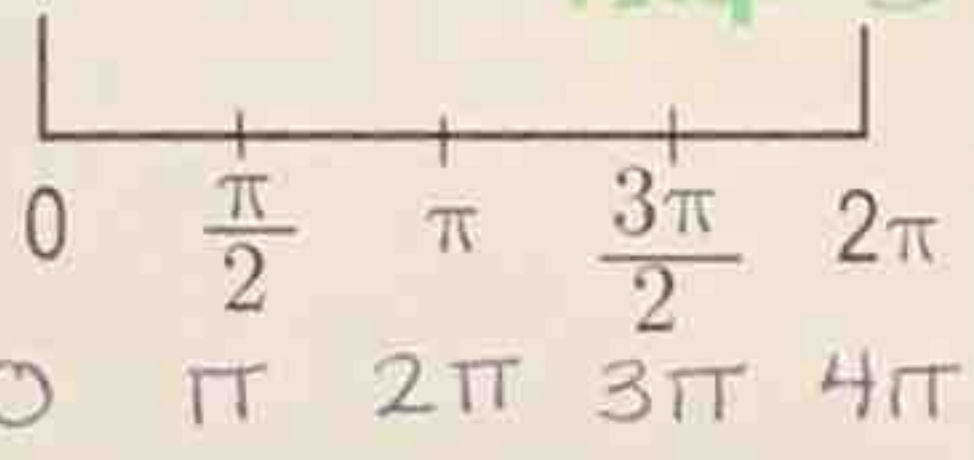
2.  $y = \cos \frac{1}{2}\theta + 1$

$\frac{2\pi}{(\frac{1}{2})} =$

Amp: 1 Per:  $4\pi$  V.S: up P.S: none



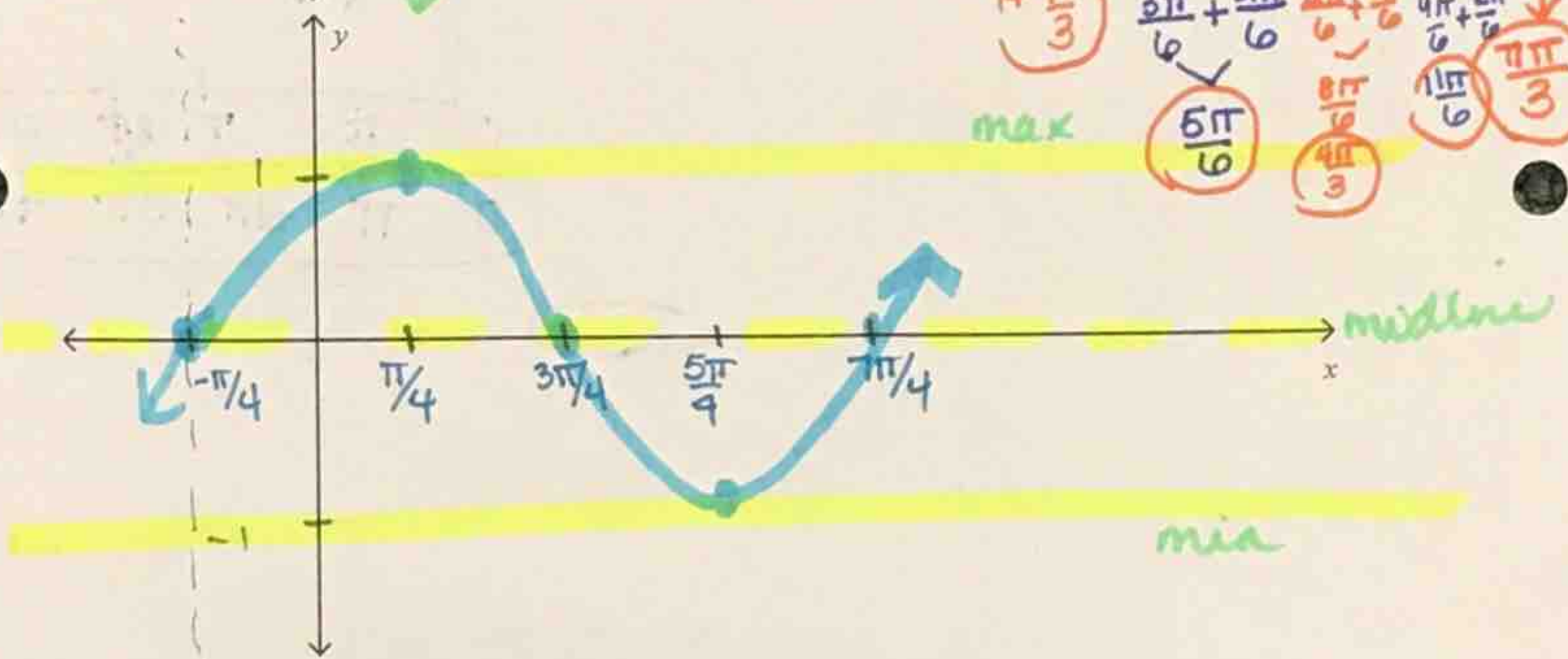
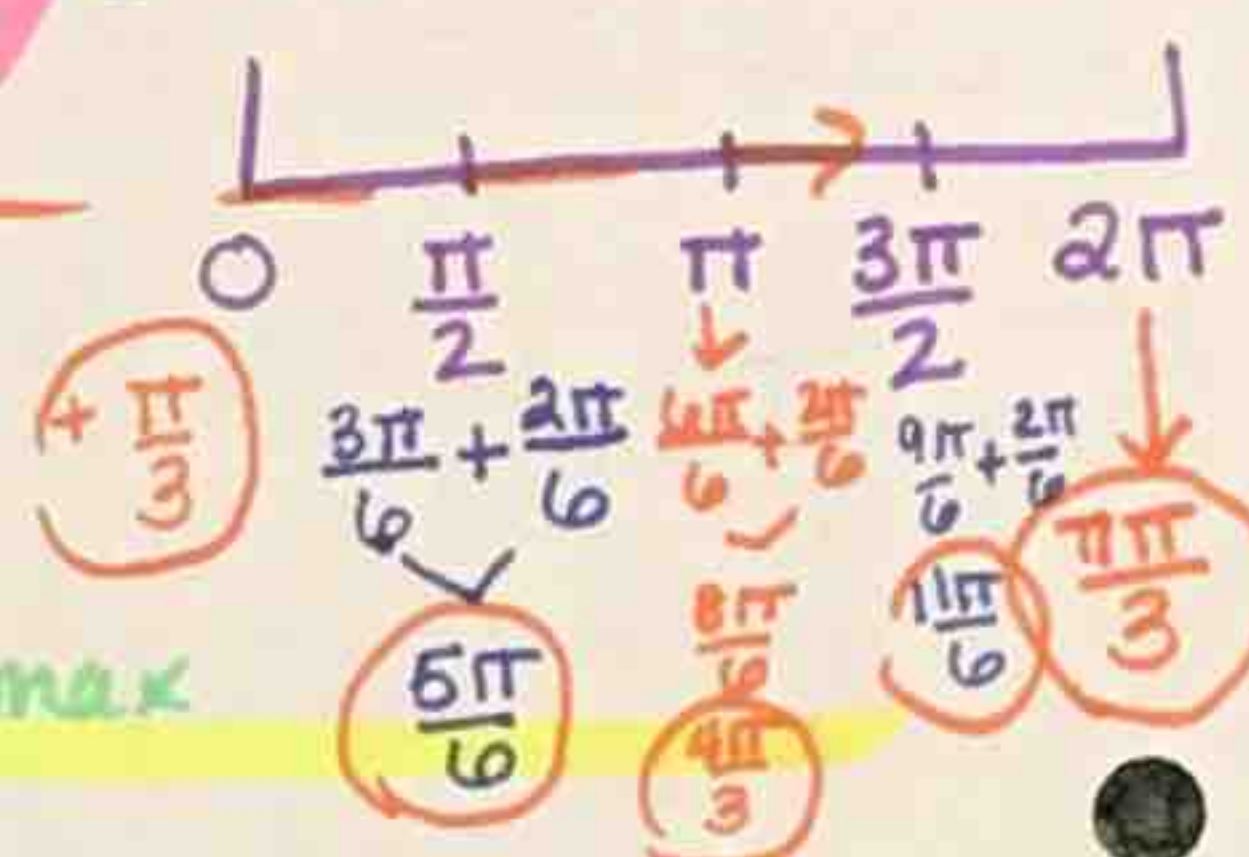
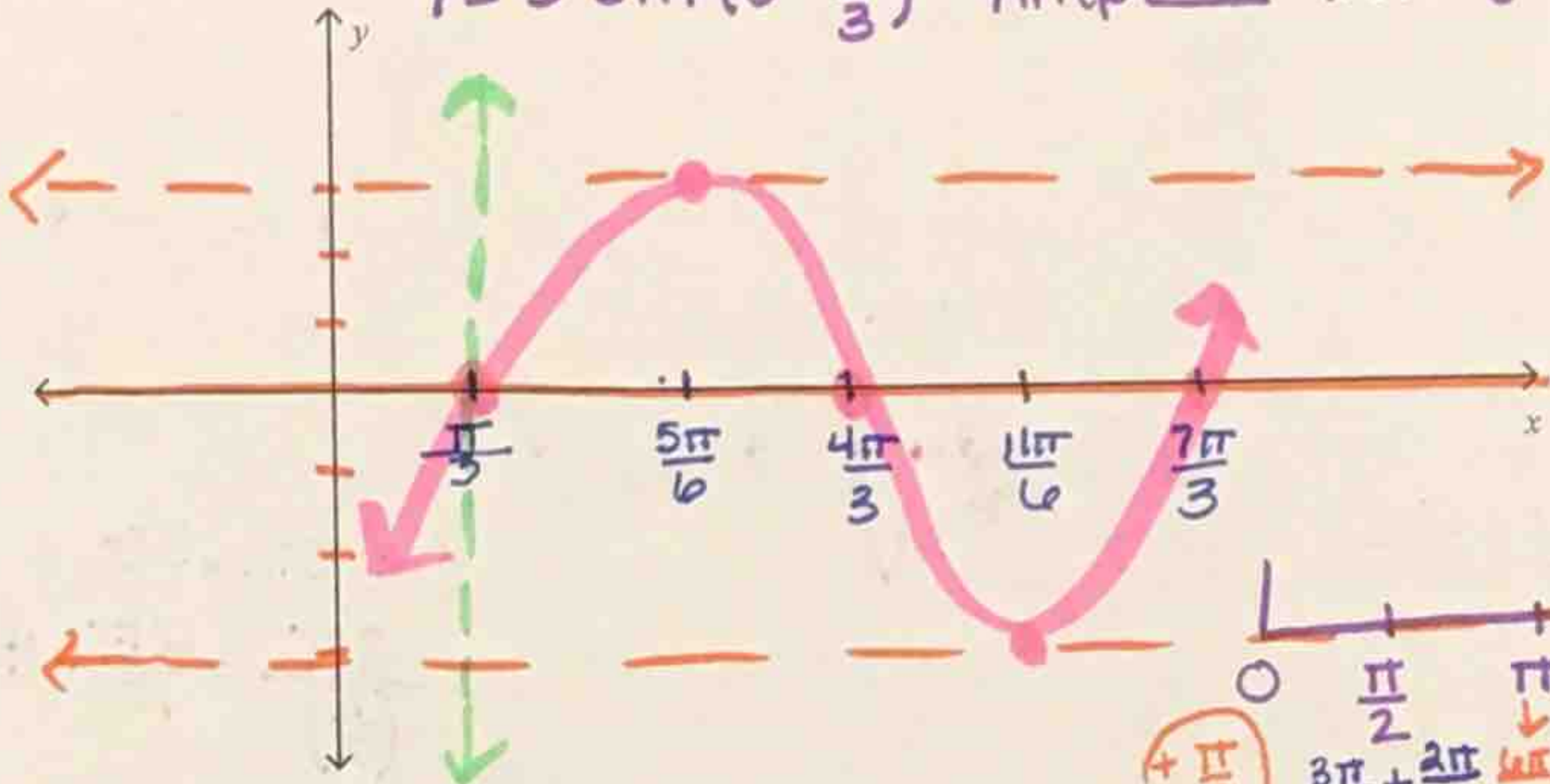
Period:  $180^\circ$   
Amp: 5



$$y = 3 \sin(\theta + \frac{\pi}{4})$$

3. a). Sketch the graphs of  $y = 3 \sin(\theta - \frac{\pi}{3})$ , ~~using different colors~~ using different colors and label the graph with the equation.

$y = 3 \sin(\theta - \frac{\pi}{3})$  Amp 3 P.S. Right  $+\frac{\pi}{3}$



Amp: 1

Period:  $2\pi$

Phase shift

Left  $\frac{\pi}{4}$

