

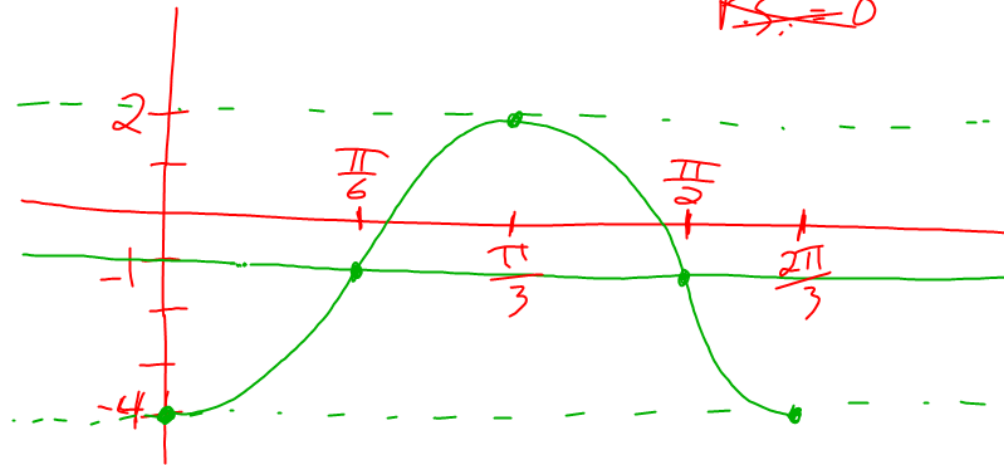
② $y = -3\cos(3\theta) - 1$

Ampl = 3

V.S = -1

Per = $\frac{2\pi}{3}$

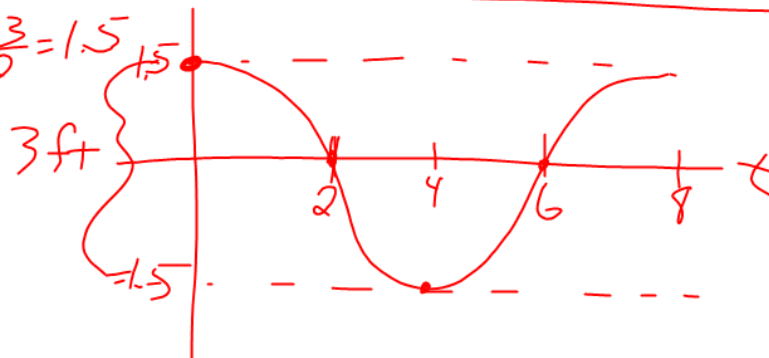
~~R.S = 0~~



a. $\text{Ampl} = \frac{3}{2} = 1.5$

b. 8 sec

\downarrow
 $k = \frac{\pi}{4}$



c. $y = 1.5\cos\left(\frac{\pi}{4}t\right)$

$$(29) \quad V.S. = 64$$

$$\text{Ampl} = 11.5$$

$$\text{Sine Per} = 12$$

$$P.S. = 3$$

$$12 = \frac{2\pi}{K} \quad \frac{\pi}{6} \cdot 3 = \frac{C}{\pi/6} \cdot \frac{\pi}{6}$$

$$K = \frac{\pi}{6} \quad \frac{\pi}{2} = C$$

$$a. \quad y = \textcircled{+} 11.5 \sin\left(\frac{\pi}{6}t - \frac{\pi}{2}\right) + 64$$