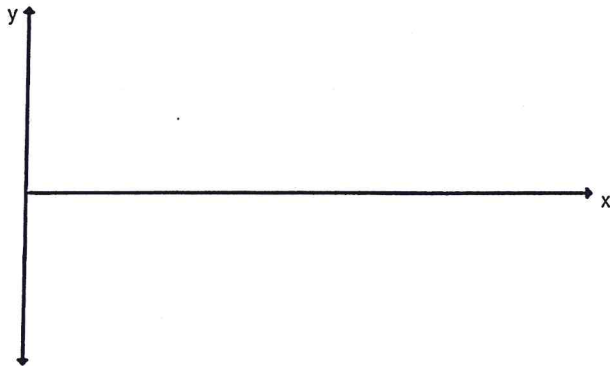


Bellwork Hon Alg 2 Wednesday, May 17, 2017

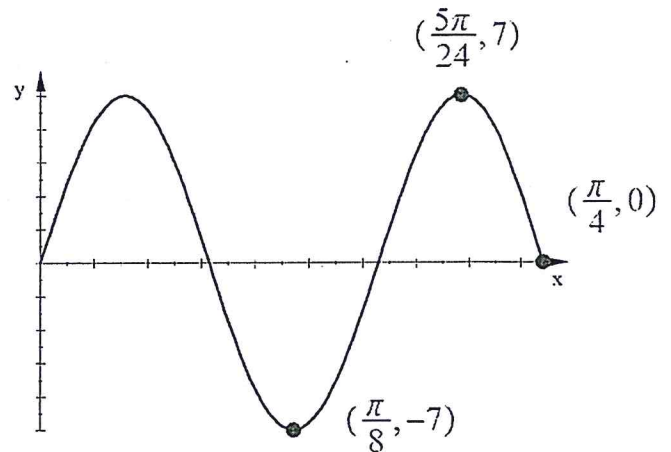
1. Graph one period of this Sine Function.

Label the coordinates of all Maximums,

Minimums, and x-intercepts. $y = -3\sin\left(\frac{3x}{5}\right)$



2. Write the equation of this Sine Function.

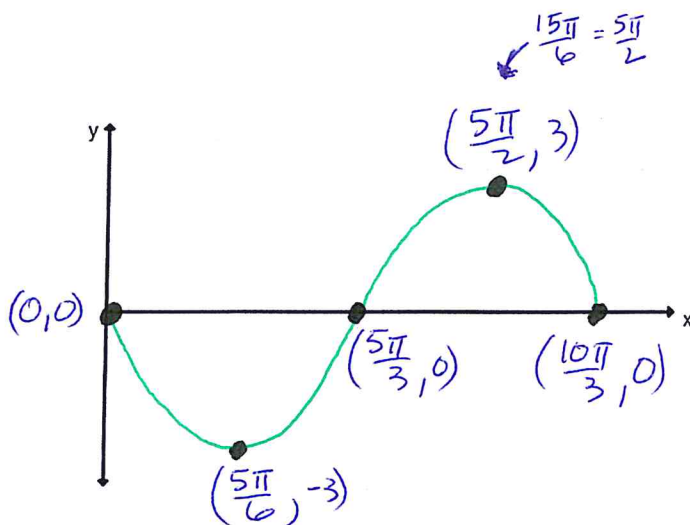


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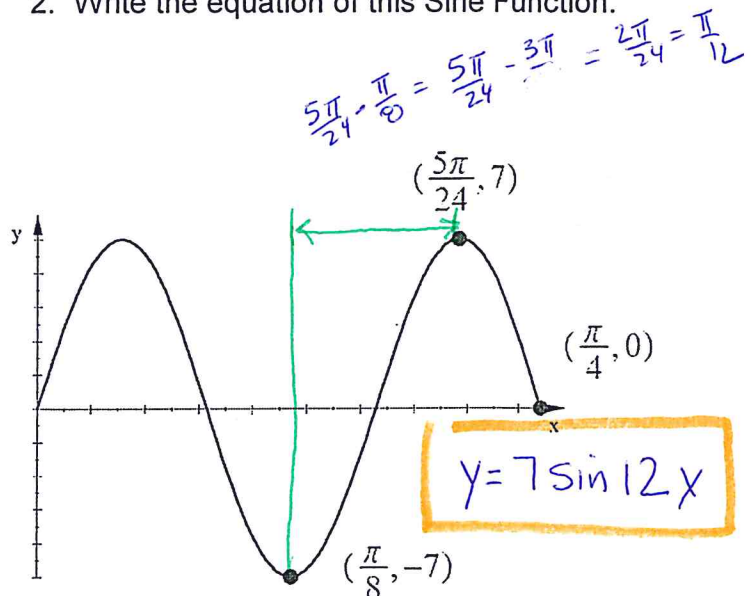


Amplitude = 3

Upside down

$$\text{period} = \frac{2\pi}{\frac{3}{5}} = 2\pi \cdot \frac{5}{3} = \frac{10\pi}{3}$$

2. Write the equation of this Sine Function.



Amplitude = 7 → $a = 7$

$$\frac{1}{2} \text{ cycle} = \frac{\pi}{12} \quad 1 \text{ cycle} = \frac{\pi}{12} \cdot 2 = \frac{\pi}{6}$$

$$\text{period} = \frac{\pi}{6} \quad b = \frac{2\pi}{\frac{\pi}{6}} = 2\pi \cdot \frac{6}{\pi} = 12$$

ANSWERS