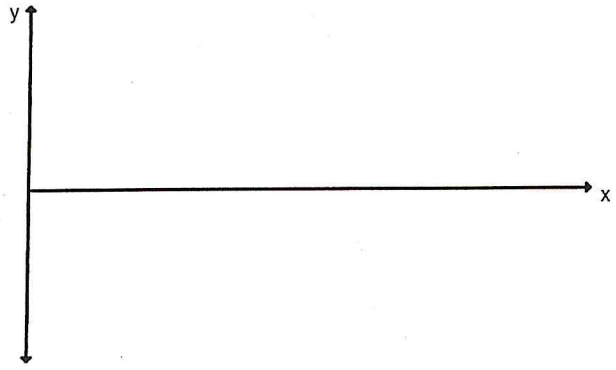
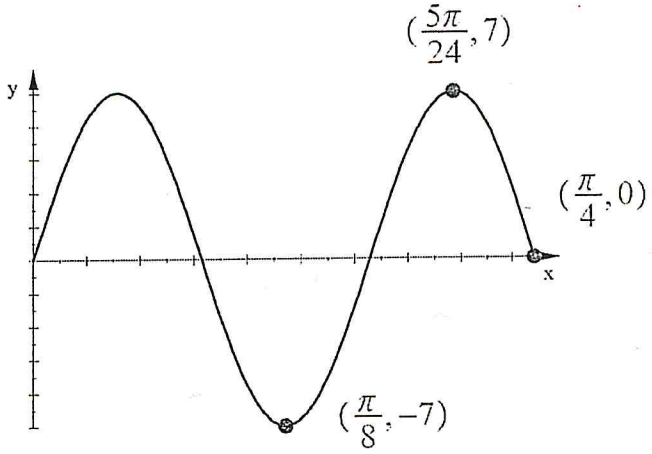
Algebra 2 Bellwork Friday, May 13, 2016

1. Graph one period of this Sine Function. Label the coordinates of all Maximums, Minimums, and x-intercepts. $y = -3\text{Sin}\left(\frac{3x}{5}\right)$



2. Write the equation of this Sine Function.

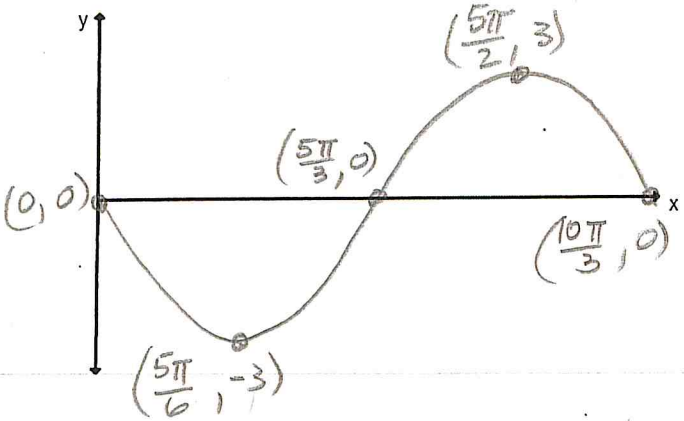


Algebra 2 Bellwork Friday, May 13, 2016 Answers

1. Graph one period of this Sine Function. Label the coordinates of all Maximums, Minimums, and x-intercepts. $y = -3\text{Sin}\left(\frac{3x}{5}\right)$

Amplitude = 3

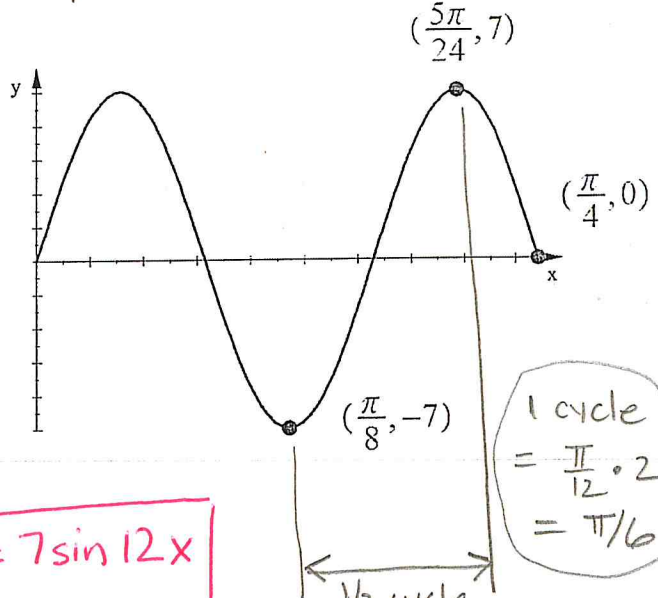
Period = $\frac{2\pi}{3/5} = 2\pi \cdot \frac{5}{3} = \frac{10\pi}{3}$



2. Write the equation of this Sine Function.

Period = $\pi/6$ $\quad b = \frac{2\pi}{\pi/6} = 2\pi \cdot \frac{6}{\pi} = 12$

Amplitude = 7



$y = 7\sin 12x$

$\frac{5\pi}{24} - \pi/8 = \frac{5\pi}{24} - \frac{3\pi}{24}$

$= \frac{2\pi}{24} = \pi/12$