

Bellwork Friday, April 4, 2014

1. State the period and amplitude of each.

a) $y = 13\sin 9x$

Period = $\frac{2\pi}{9}$

Amplitude = 13

c) $y = \frac{1}{2}\sin\left(\frac{4x}{5}\right)$

Period = $\frac{5\pi}{2}$

Amplitude = $\frac{1}{2}$

b) $y = -2\sin\left(\frac{x}{8}\right)$

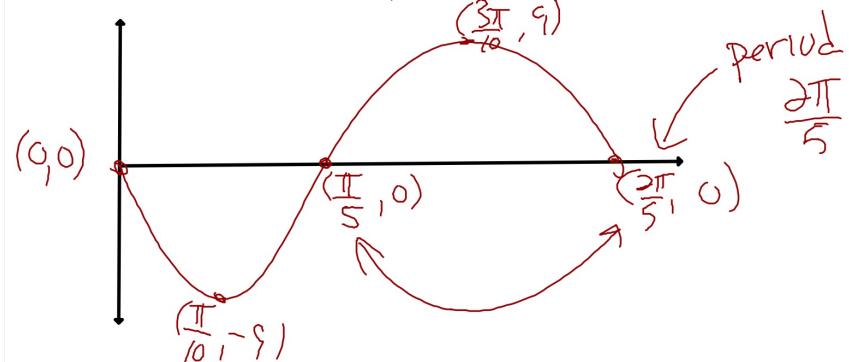
Period = 16π

Amplitude = 2

$as\sin bx$

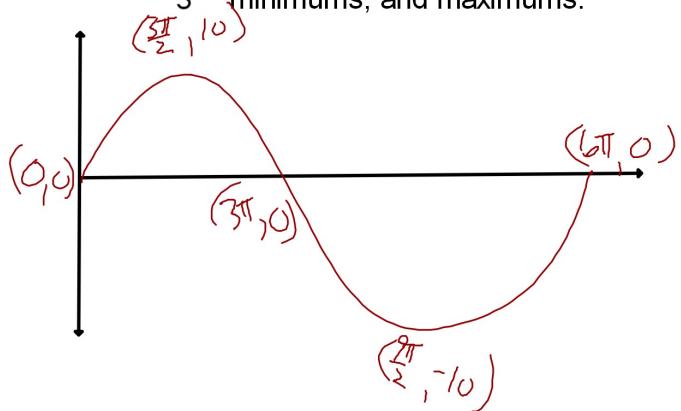
$\frac{x}{8} = \frac{1}{8}x$

2. Sketch one period of the graph of $y = -9\sin(5x)$. Label the coordinates of all x-intercepts, minimums, and maximums.



3. Sketch one period of the graph of

$y = 10\sin\frac{x}{3}$ Label the coordinates of all x-intercepts, minimums, and maximums.



$b = \frac{1}{3}$

period

$\frac{2\pi}{\frac{1}{3}} = 6\pi$

3. Write the equation of this sine function.

