

Algebra 2 Bellwork Monday, March 16, 2015

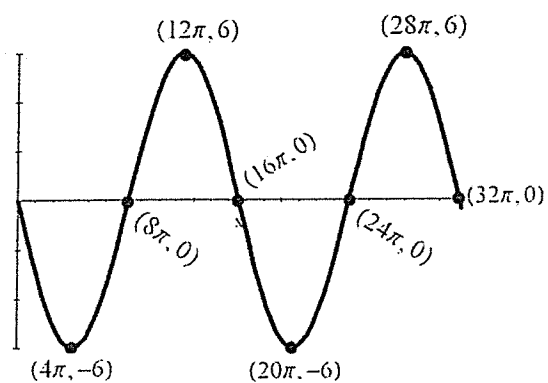
Graph on period of each Sine function. Label the coordinates of all Max, Min, and x-int.

1. $y = 4\sin 11x$

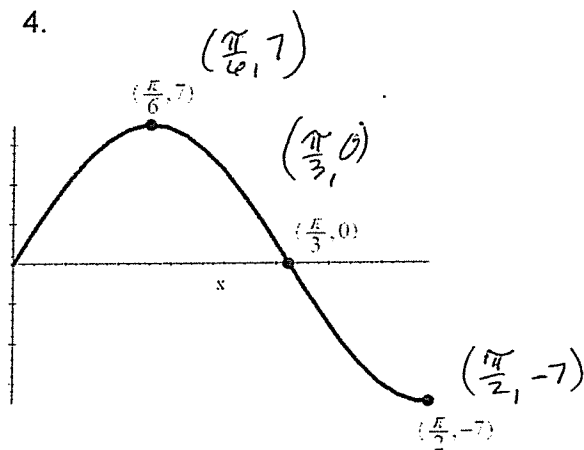
2. $y = -7\sin\left(\frac{x}{3}\right)$

Write the equation of each Sine function in the form $y = a\sin bx$

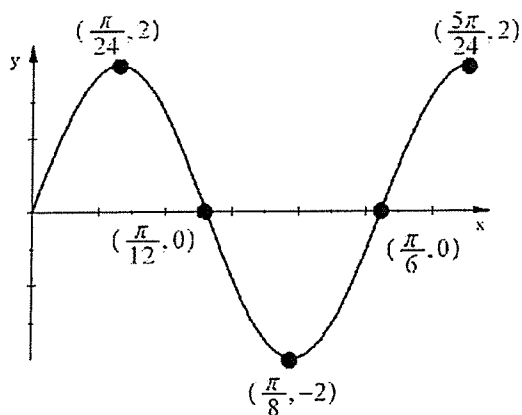
3.



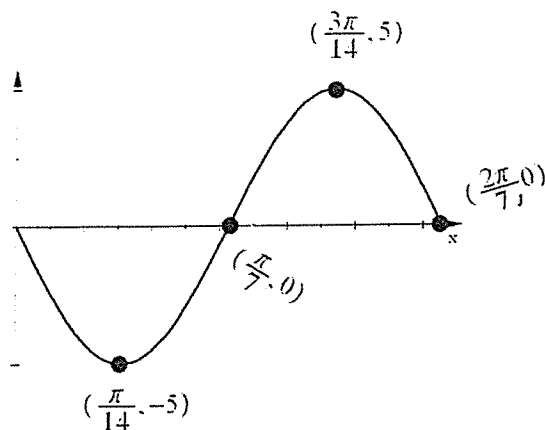
4.



5.

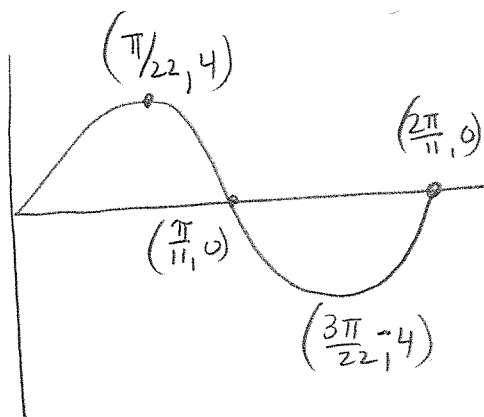


6.



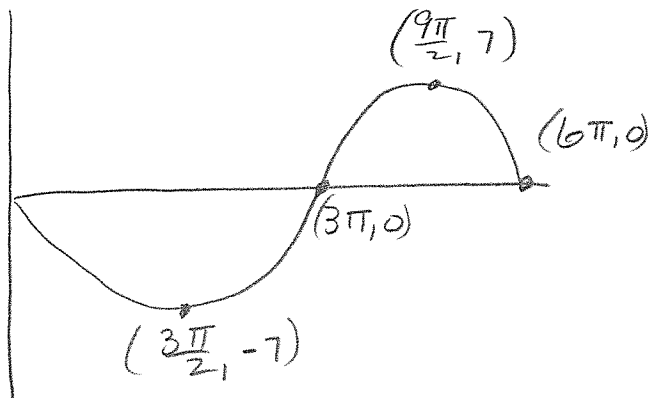
Graph on period of each Sine function. Label the coordinates of all Max, Min, and x-int.

1. $y = 4\sin 11x$
 period = $\frac{2\pi}{11}$ Amp = 4



2. $y = -7\sin\left(\frac{x}{3}\right)$

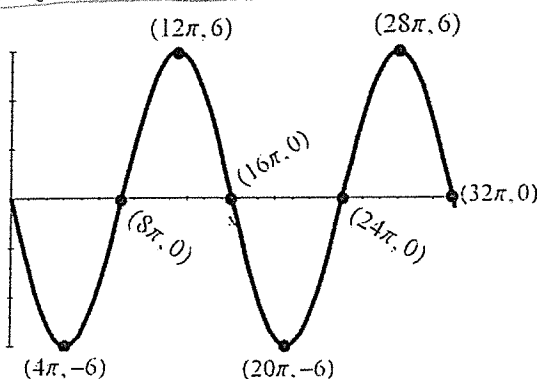
period = $\frac{2\pi}{1/3} = 6\pi$ Amp = 7



Write the equation of each Sine function in the form $y = a\sin bx$

3. $y = -6\sin \frac{x}{8}$

period = 16π
 $b = \frac{2\pi}{16\pi} = \frac{1}{8}$
 amp = 6



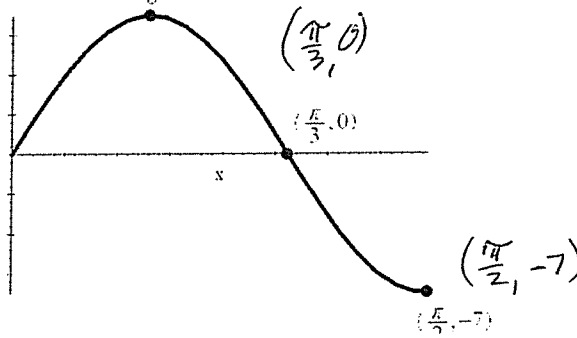
4.

$y = 7\sin 3x$

period = $\frac{\pi}{3} \cdot 2 = \frac{2\pi}{3}$

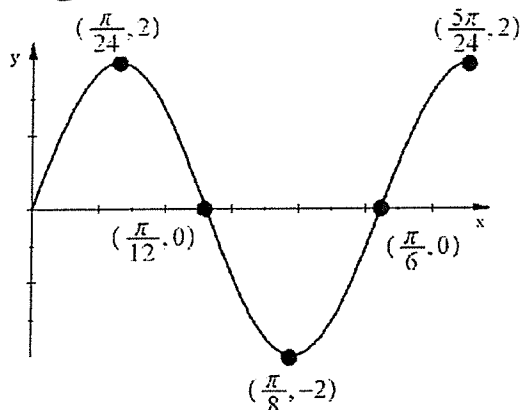
$b = \frac{2\pi}{2\pi/3} = 2\pi \cdot \frac{3}{2\pi} = 3$

amp = 7



5.

$y = 2\sin 12x$



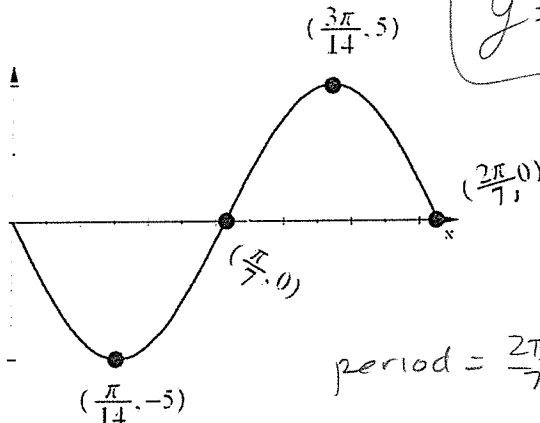
period = $\frac{\pi}{6}$

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

Amp = 2

6.

$y = -5\sin 7x$



period = $\frac{2\pi}{7}$

$b = \frac{2\pi}{2\pi/7} = 2\pi \cdot \frac{7}{2\pi} = 7$

Amp = 5