

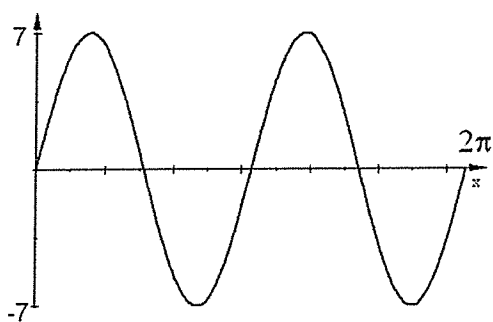
Algebra 2 Bellwork Wednesday, March 11, 2015

For each Sine function below state the Period and Amplitude.

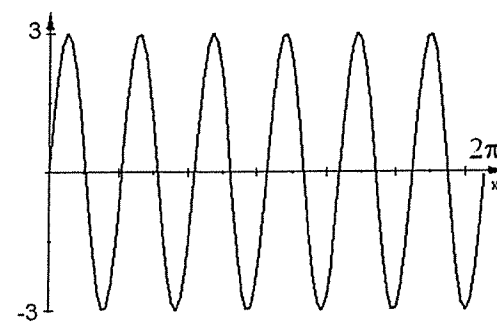
1. $y = 4\sin 3x$

2. $y = -10\sin\left(\frac{x}{6}\right)$

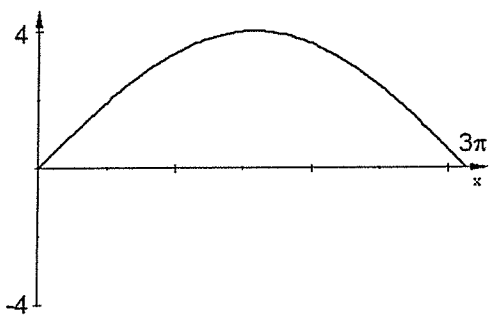
3.



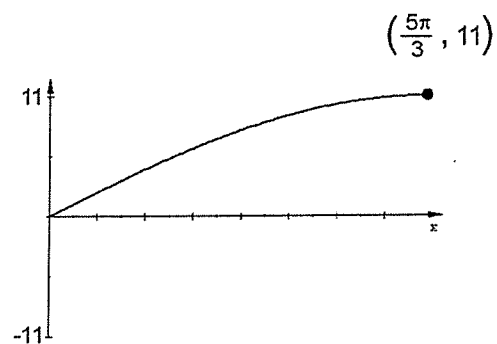
4.



5.

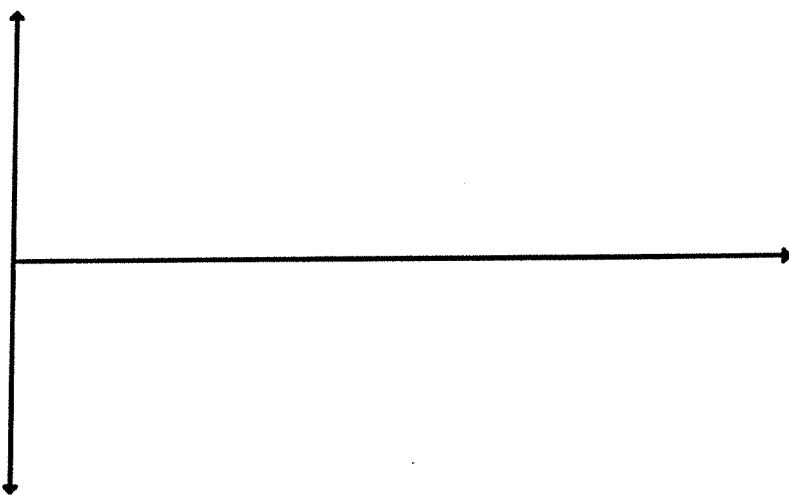


6.



7. Find the period and amplitude of this Sine function then sketch one cycle and label the coordinates of the max's, min's, and x-int.

$y = 6\sin 4x$



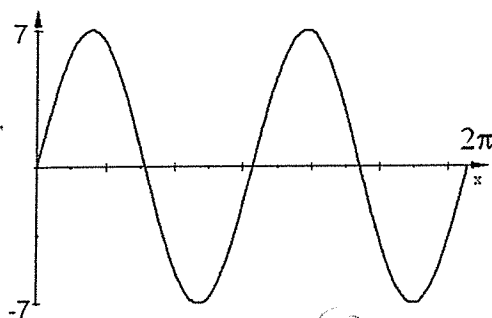
ANSWERS

For each Sine function below state the Period and Amplitude.

1. $y = 4\sin 3x$

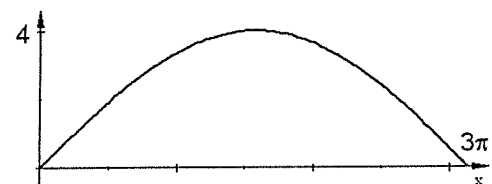
Amplitude = 4
 Period = $\frac{2\pi}{3}$

3.



Amplitude = 7
 Period = $\frac{2\pi}{2} = \pi$

5.

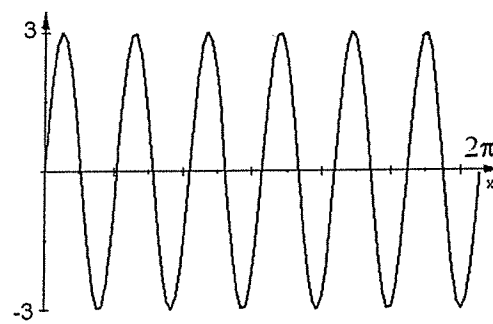


Amplitude = 4
 Period = $\frac{3\pi}{\frac{1}{2}} = 3\pi \cdot 2 = 6\pi$

2. $y = -10\sin\left(\frac{x}{6}\right)$

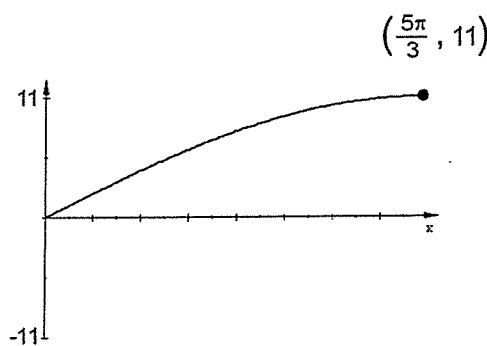
Amplitude = 10
 Period = $\frac{2\pi}{\frac{1}{6}} = 2\pi \cdot 6 = 12\pi$

4.



Amplitude = 3
 Period = $\frac{2\pi}{6} = \frac{\pi}{3}$

6.



Amplitude = 11
 Period = $\frac{5\pi}{\frac{1}{4}} = 5\pi \cdot 4 = 20\pi$
 Period = $\frac{20\pi}{3}$

7. Find the period and amplitude of this Sine function then sketch one cycle and label the coordinates of the max's, min's, and x-int.

$y = 6\sin 4x$

Amplitude = 6
 Period = $\frac{2\pi}{4} = \frac{\pi}{2}$

