Algebra 2 Hwk #22 Sec 13-1 Preview Spring 2016 Name:

Define each term

Periodic Function:

Cycle:

Period:

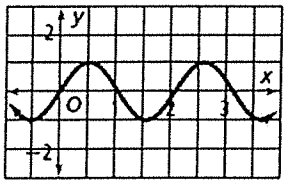
Amplitude:

Another Characteristic of a Periodic Function is it's Midline (also know as the Axis). The Midline is the horizontal line that passes through the middle of the Periodic Function.
The equation of the midline can be found by the following formula:

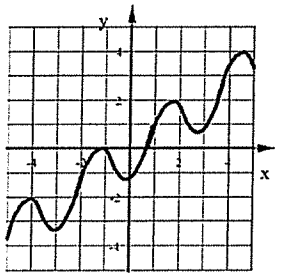
Midline: $y = \dfrac{\text{Maximum Value} + \text{Minimum Value}}{2}$

1. Tell if each of the below is a periodic function or not. If no, explain why.

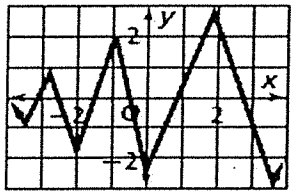
a.



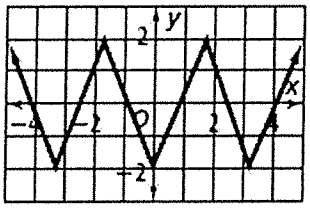
b.



c.

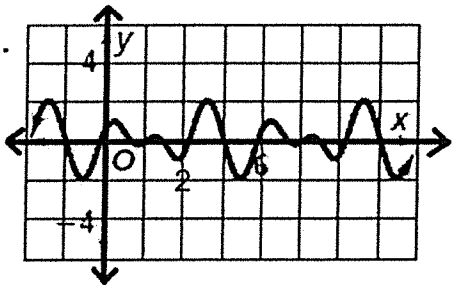


d.

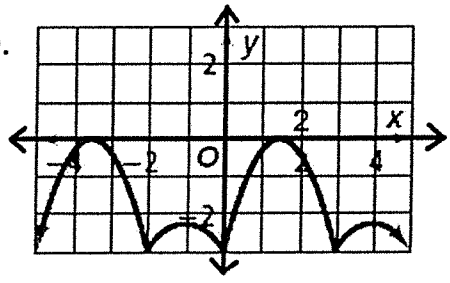


2. Highlight one cycle of each periodic function and find it's period.

a.

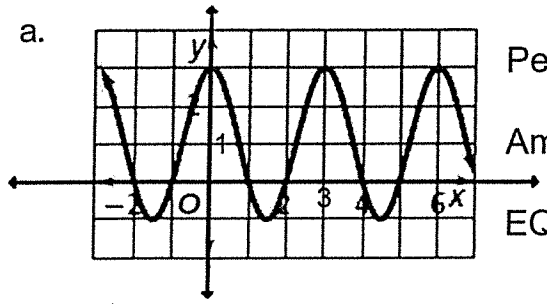


b.



3. Find the period, amplitude, and equation of the midline for each periodic function.

a.

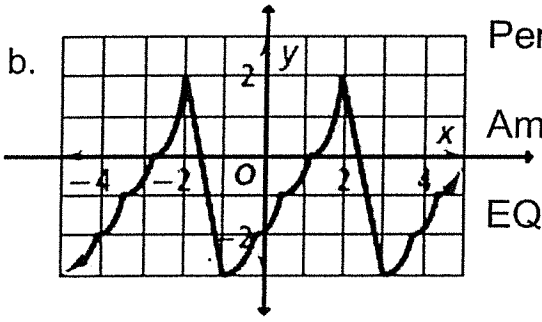


Period =

Amplitude =

EQ of Midline:

b.



Period =

Amplitude =

EQ of Midline:

4. Find the period of this periodic function.