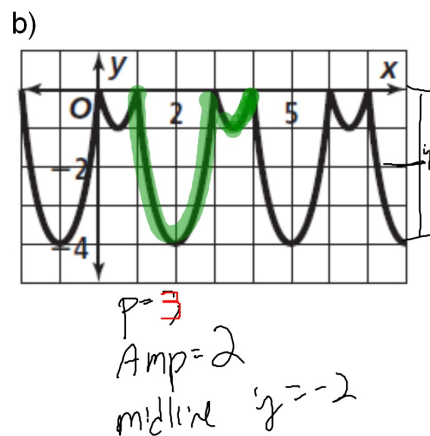
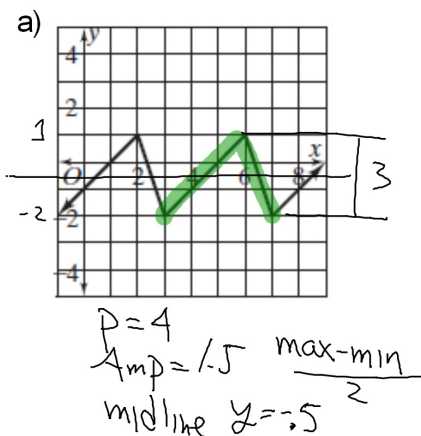


Bellwork Wednesday, March 26, 2014

1. For each find the Period, Amplitude, and Eq of the Midline.



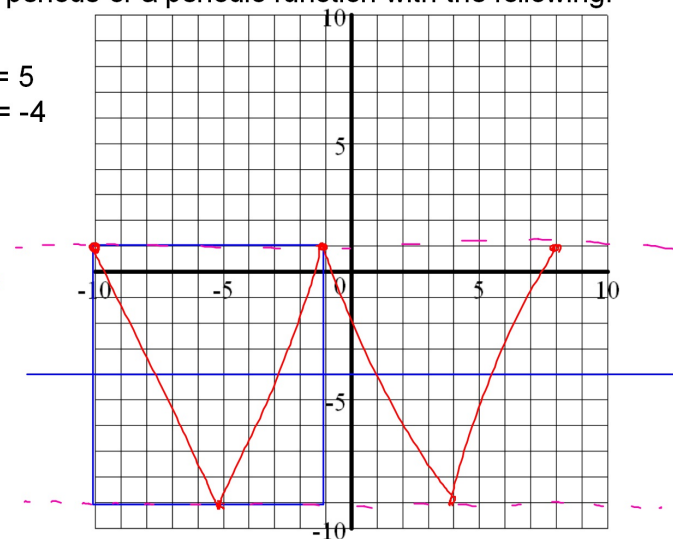
2. Graph 2 periods of a periodic function with the following:

Period = 9

Amplitude = 5

Midline: $y = -4$

Example
is given.



3. Suppose f is a periodic function with a period of 7

Given $f(8) = 47$ and $f(20) = -15$

$(8, 47)$ $(20, -15)$

a. Find $f(-13)$

$= 47$

$f(-13)$ occurs 3 periods
prior to $f(8)$

b. Find $f(48)$

$= -15$

$f(48)$ occurs 4 periods
after $f(20)$

4. A periodic function goes through 10 cycles in 6 minutes.
Find the period of the function.

$$\frac{6 \text{ min}}{10 \text{ cycles}} = 0.6 \text{ min/cycle}$$

$$\frac{3600 \text{ sec}}{10 \text{ cycles}} = 360 \text{ sec/cycle}$$

5. The period of a periodic function is 8 seconds. How
many cycles does it go through in 1 minute?

$$\frac{60 \text{ sec}}{8 \text{ sec}} = 7.5 \text{ cycles/sec} \rightarrow \text{Frequency}$$