Warm Up: Pre-Calc

1/28

Consider the function of y = f(x). What effects would the following transformations have on the function?

a) y = a•f(x)

b) y = f(x - c)

c) y = f(bx)

d) y = f(x) + d

y = 3 + 2

Use any and all resources to find your answer!!!!

pg. 77 might help

Feb 27-7:39 AM

W.A.L.T.:

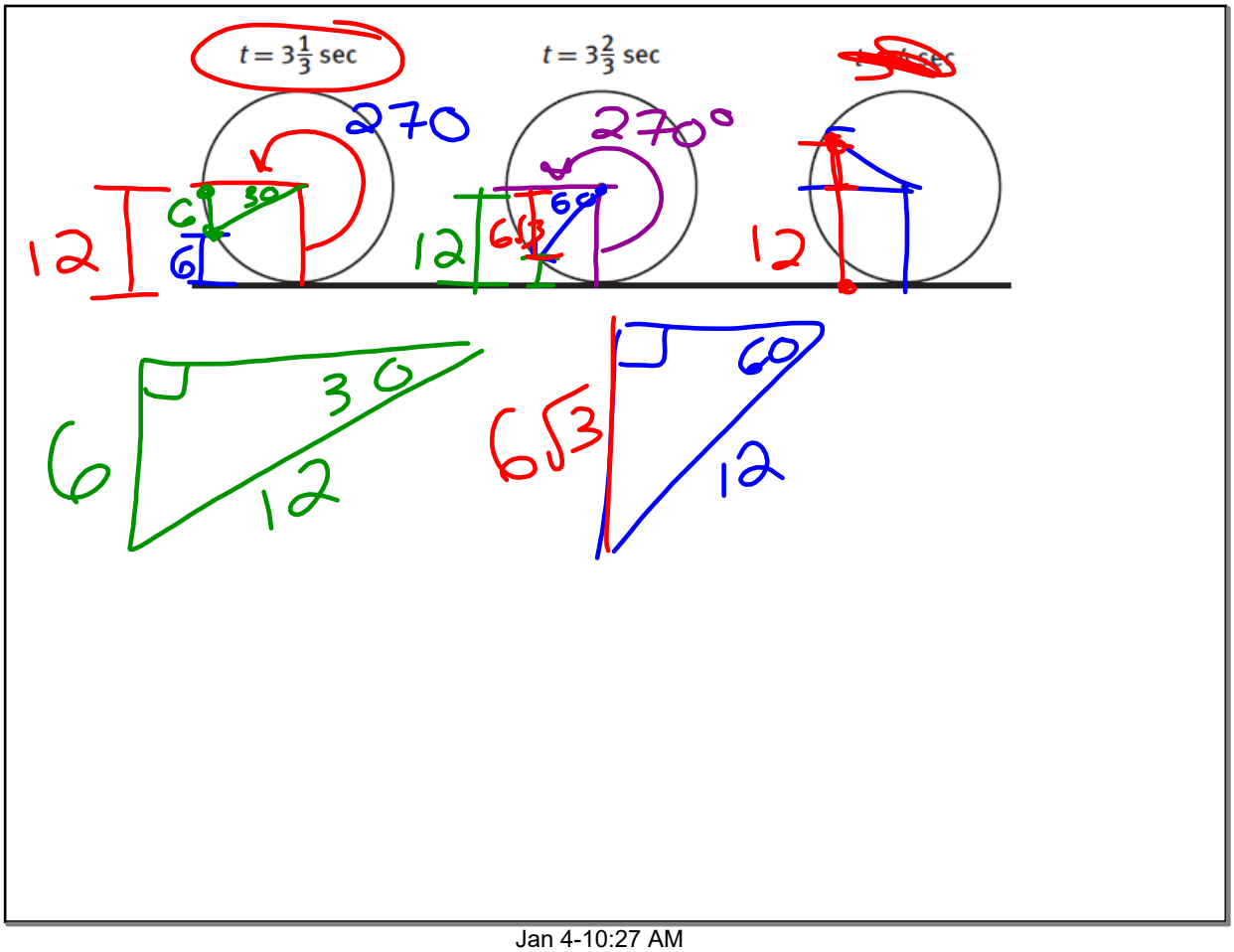
Day 5

Use our understanding of the transformations of functions to explain the behavior of periodic functions.

W.A.S.I:

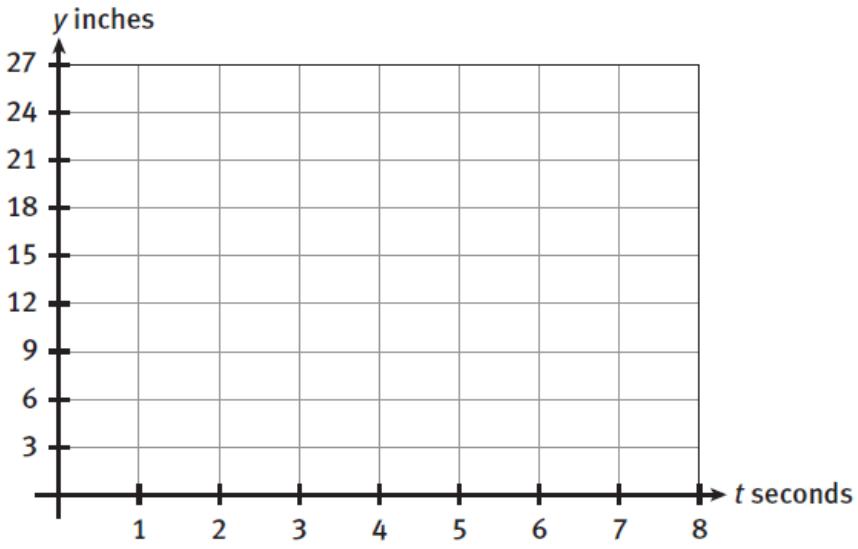
We can recognize changes in the graph and how that translates to period, amplitude and midline.

Mar 7-9:45 AM



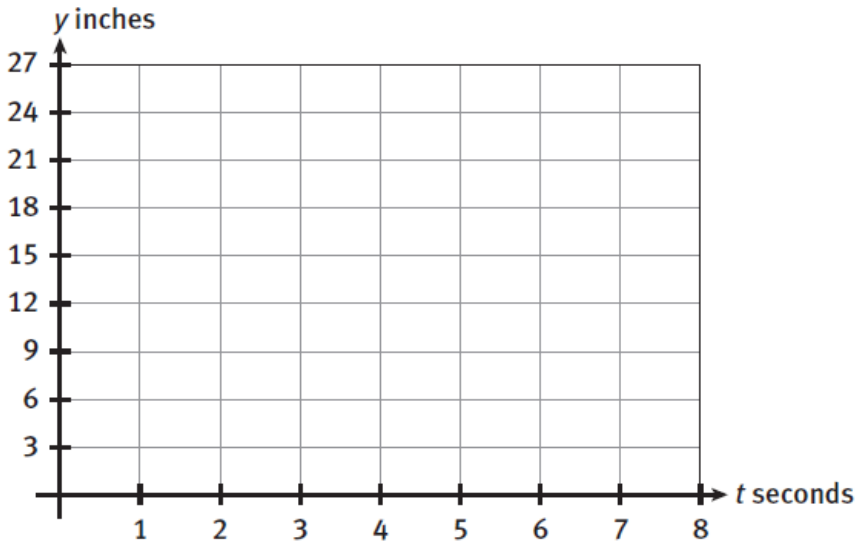
Jan 4-10:27 AM

2a)



Jan 9-10:53 AM

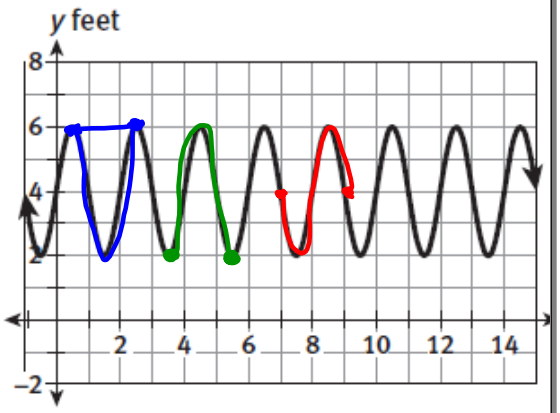
2b)



Jan 9-10:53 AM

Notes!!! Periodic Functions

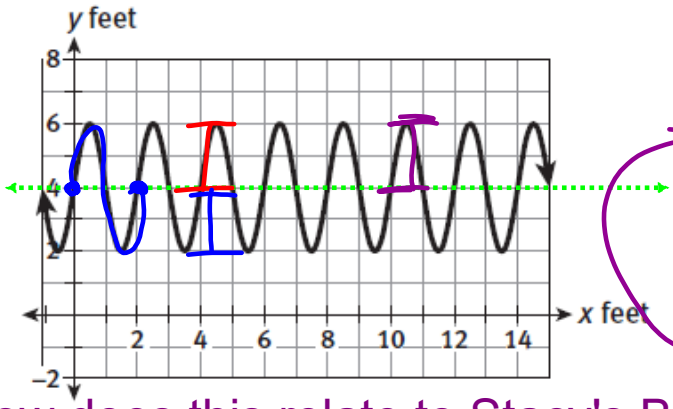
A periodic function is a function that repeats its values in regular intervals called periods.



How does this relate to Stacy's Bike? Be Specific.

Mar 7-1:33 PM

Notes!!! Periodic Functions



A **period** is the horizontal distance required for the graph of a periodic function to complete one repetition, or *cycle*.

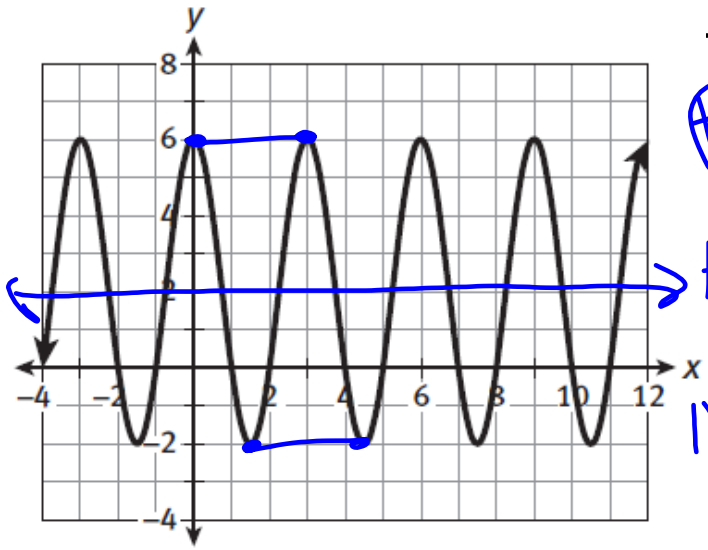
The **amplitude** of a function is half the difference between the minimum and maximum values of the range.

The **midline** is a horizontal axis that is used as the reference line about which the graph of a periodic function oscillates.

y = 4

How does this relate to Stacy's Bike?
Be specific for all three definitions

Mar 7-1:33 PM



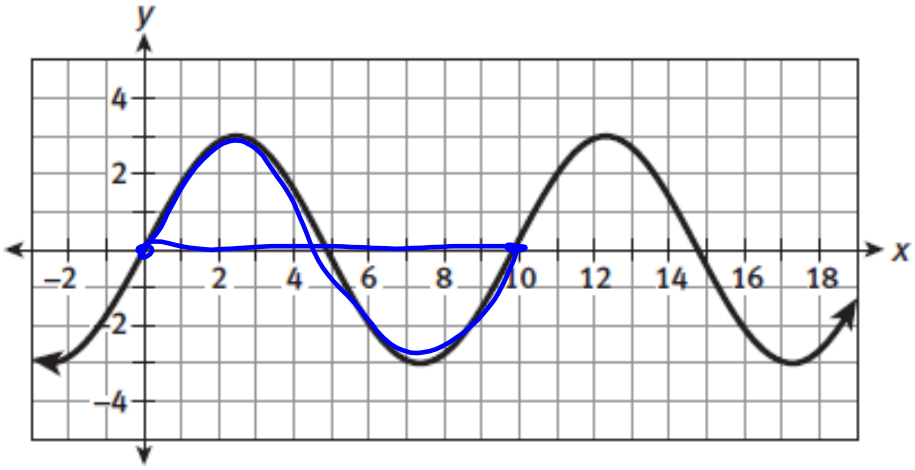
P = 3

A = 4

M = y = 2

Mar 7-1:33 PM

In Class Work: pg. 206 #6



Mar 7-1:33 PM

Today's Activities:

- Notes and conversation about period functions

P.W. for tonight:

- pg. 212 #1 - 16, 17 AD due at the end of class tomorrow.
Separate sheet of paper. No excuses!!!

Feb 27-7:23 AM