Today's Learning Goal(s):

Date:

By the end of the class, I will be able to:

a) sketch sinusoidal functions using transformations.

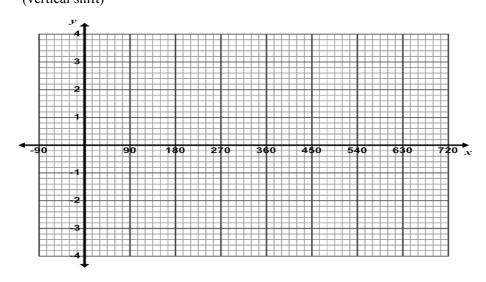
Last day's work: pp. 383-385 #1 - 4 [12]

6.5 Using Transformations to Sketch Sinusoidal Functions Day2

Ex. 1 Sketch (one cycle) for: $y = -3\cos(2x - 90^{\circ}) - 1$

amplitude: period: phase shift:

equation of the axis: range: (vertical shift)



6.5_2 Using Transformations To Sketch Sinusoidal Functions (Day2_Fall 2015) mbterb@6,12015

Ex. 2

A water wheel turns. The height of a nail at the circumference of the wheel is given by $h = 5\sin(12t)^{\circ} + 1$. Graph the function.



(if time)

Ex. 3 Ron gets on a ferris wheel.

The radius of the wheel is 12 m and he starts 1 moff the ground. The wheel takes 3 minutes to go around.

Determine the equation for Ron's height in terms of the time.



6.5_2 Using Transformations To Sketch Sinusoidal Functions (Day2_Fall 2004.5) mobile 1000 12015

Are there any Homework Questions you would like to see on the board?

Last day's work: pp. 383-385 #1 – 4 [12]

Today's Homework Practice includes:

pp. 383-385 #5 - 9 [13]

6.2 SineTracer.gsp