

Today's Learning Goal(s):

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 Day 2

Ex. 1 Sketch (one cycle) for:

$$y = -3\cos(2x - 90^\circ) - 1$$

Date: _____

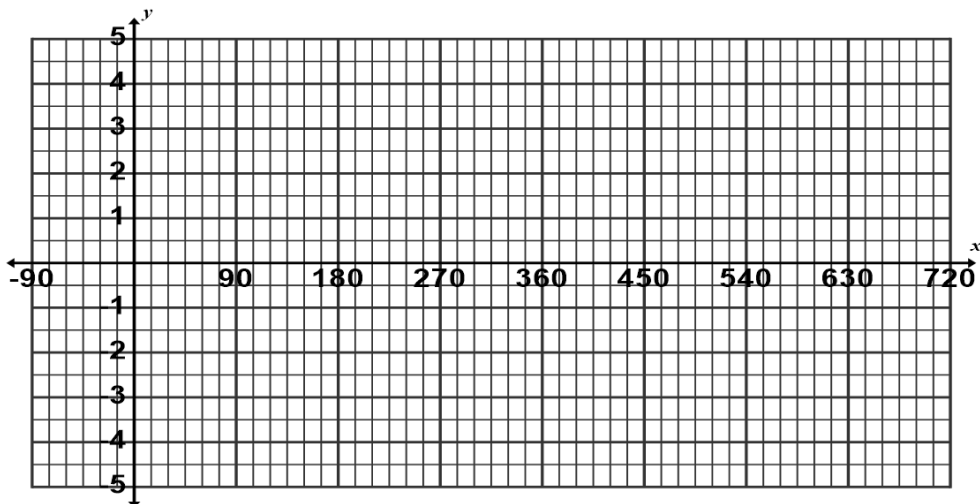
amplitude:

period:

phase shift:

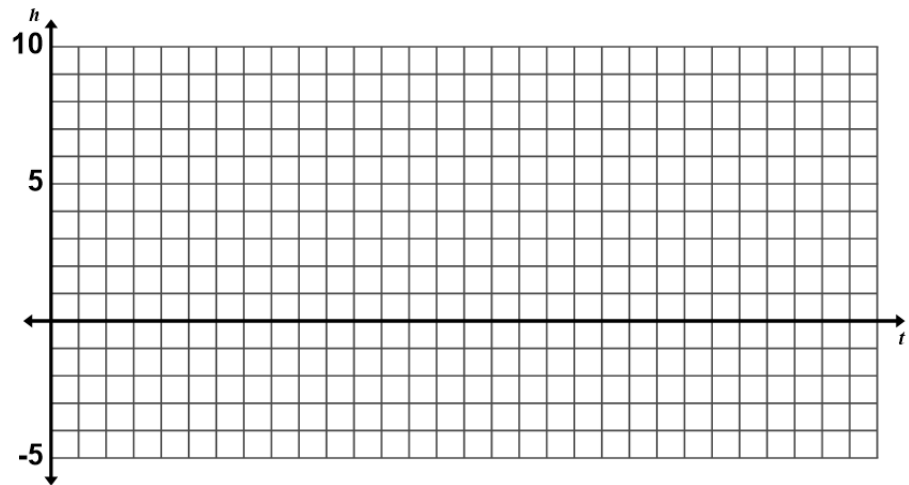
equation of the axis:
(vertical shift)

range:



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.



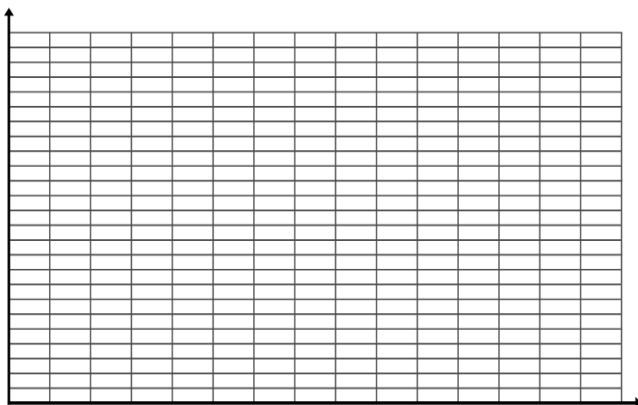
(if time)

Ex. 3 Ron gets on a ferris wheel.

The radius of the wheel is 12 m and he starts 1 m off the ground.

The wheel takes 3 minutes to go around.

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



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]