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

p. 379 # 6 - 8, 10ace, 11ace, 12(Note: for 11c, the sketch is incorrect in the text solution)

Today's Learning Goal(s):

By the end of the class, I will be:

Return and correct SWYK 6.2? a) ready for the unit summative on sinusoidal functions.

p. 379

10. State the amplitude, period, equation of the axis, and maximum and minimum values of f(x) for each sinusoidal function. Verify your answers using graphing technology.

a)
$$f(x) = 3 \sin x$$

amplifude 3 period 360°

equation of the axis: y=0

Max. value 3

min value -3

MCF 3MI

6.R Sinusoidal Functions Review

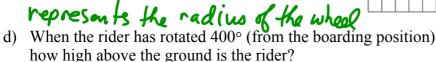
Complete from yesterday's examples:

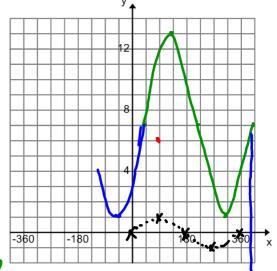
Date: May 9/18

- 12. The height of a Ferris wheel is modeled by the function, $h(\theta) = 6\sin(\theta - 45^{\circ}) + 7$, where $h(\theta)$ is in metres and θ is the number of degrees the wheel has rotated from the boarding position of the rider.
- a) Sketch the graph of this function.
- b) What is the range of the function?

c) What is the amplitude of the function, and what does it represent in this situation?







6.7 in above the grade (estimated from the graph.) m above the ground. find h(400°) = 6 Sin(400-45°) + 7

$$find h(400°) = 6 Sin(400-45°) + 7$$
 $= 6.47 m$

Today's Homework: p. 378 #1, 2, 10bd, 11bd p. $380 \# 2 \text{(note period } = 30^{\circ}), 3 - 6$