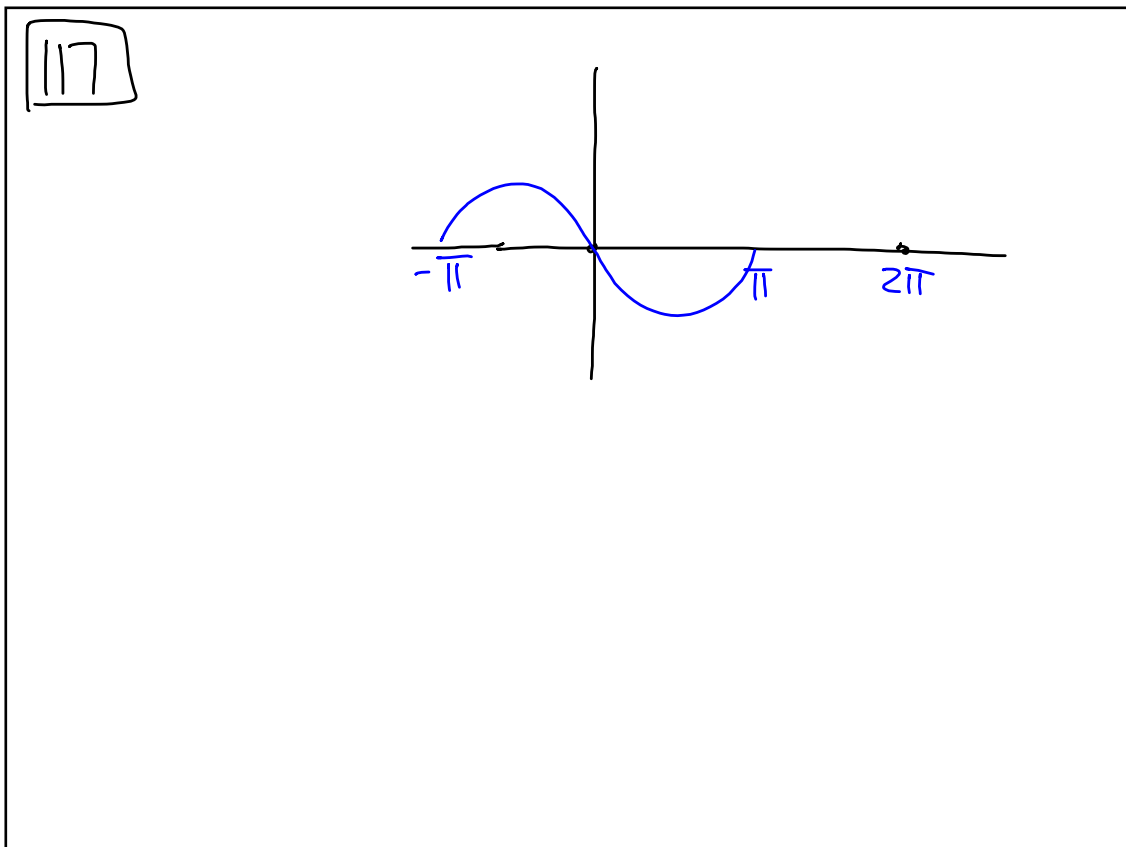
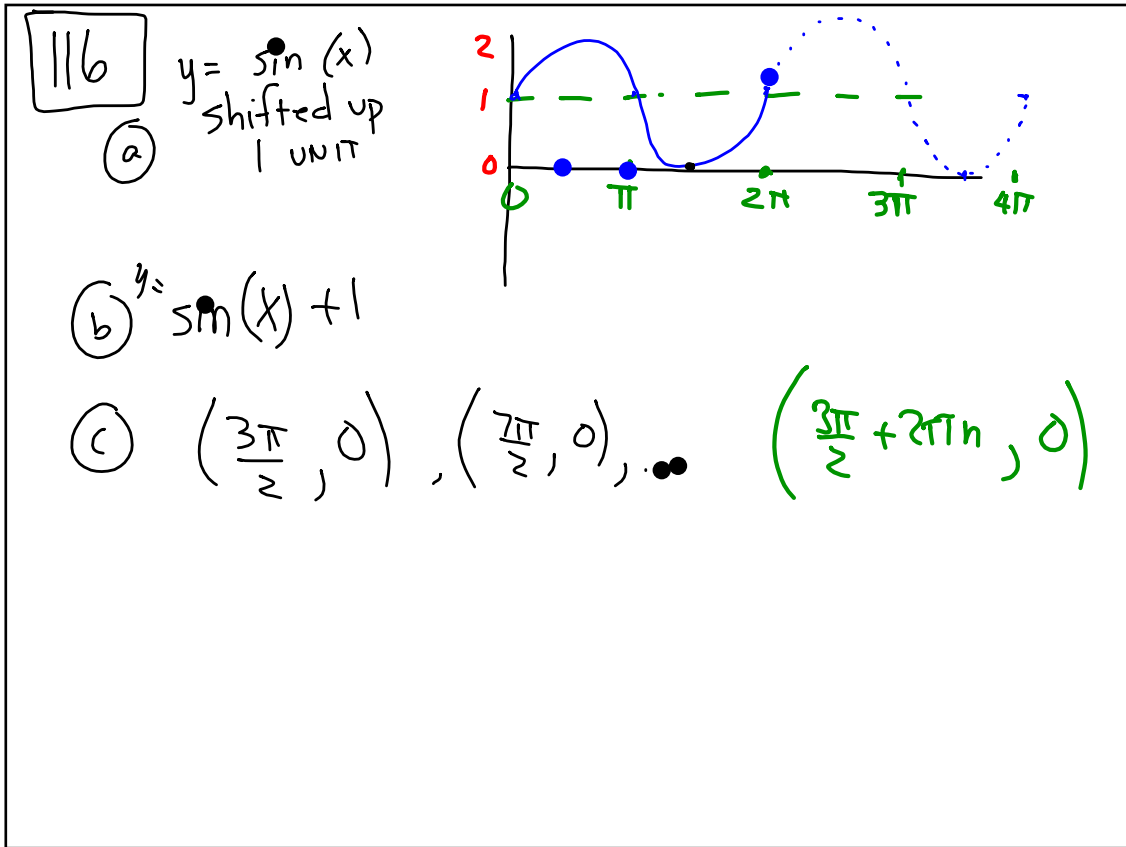


an early release day  
Do question similar to #119

Questions  
on HW ?



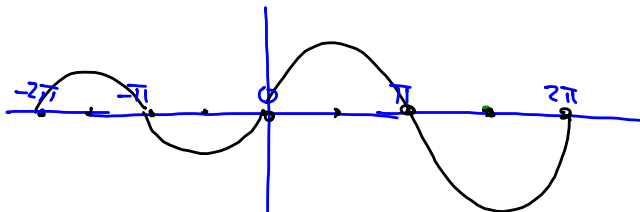
118

- (a) Graduating class size ?
- (b) hunger throughout day ?
- (c) Tidal heights ?

120

$$y = \cos x$$

$$y = \sin x$$



$$\boxed{122} \quad a. \quad \frac{3}{x} + \frac{2}{x+1} = 5$$

$$\frac{3}{x} + \frac{2}{x+1} = 5$$

$$b. \quad x^2 + 6x + 9 = 2x^2 + 3x + 5$$

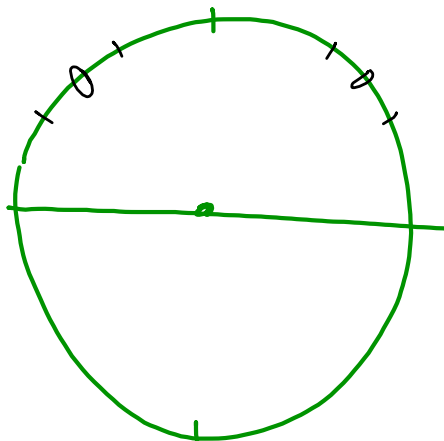
$$0 = x^2 - 3x - 4$$

$$\textcircled{c} \quad 8 - \sqrt{9-x} = x+3$$
$$-\sqrt{9-x} = x-5$$

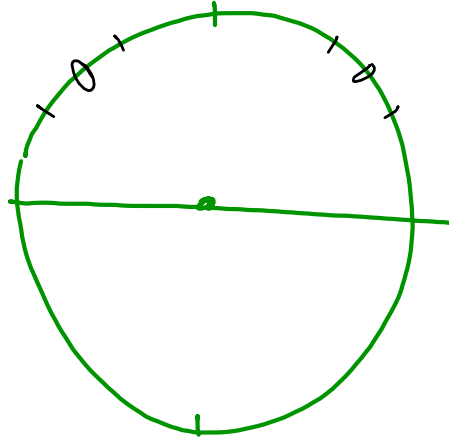
123

$$a \bullet \tan\left(\frac{2\pi}{3}\right)$$

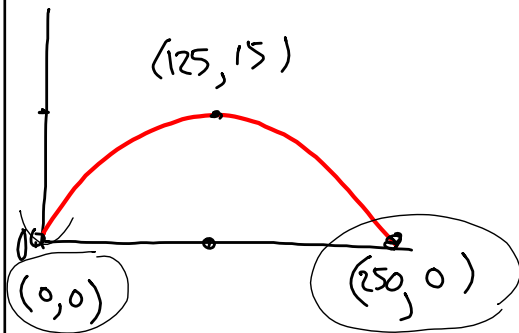
=



$$b. \tan\left(\frac{7}{6}\pi\right)$$



124

250 yard shot  
15 yards high

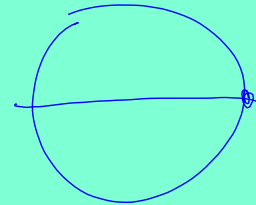
$$y = a(x-h)^2 + k$$

$$y = a(x-125)^2 + 15$$

$$0 = a(250-125)^2 + 15$$

A variation on  
the screamer

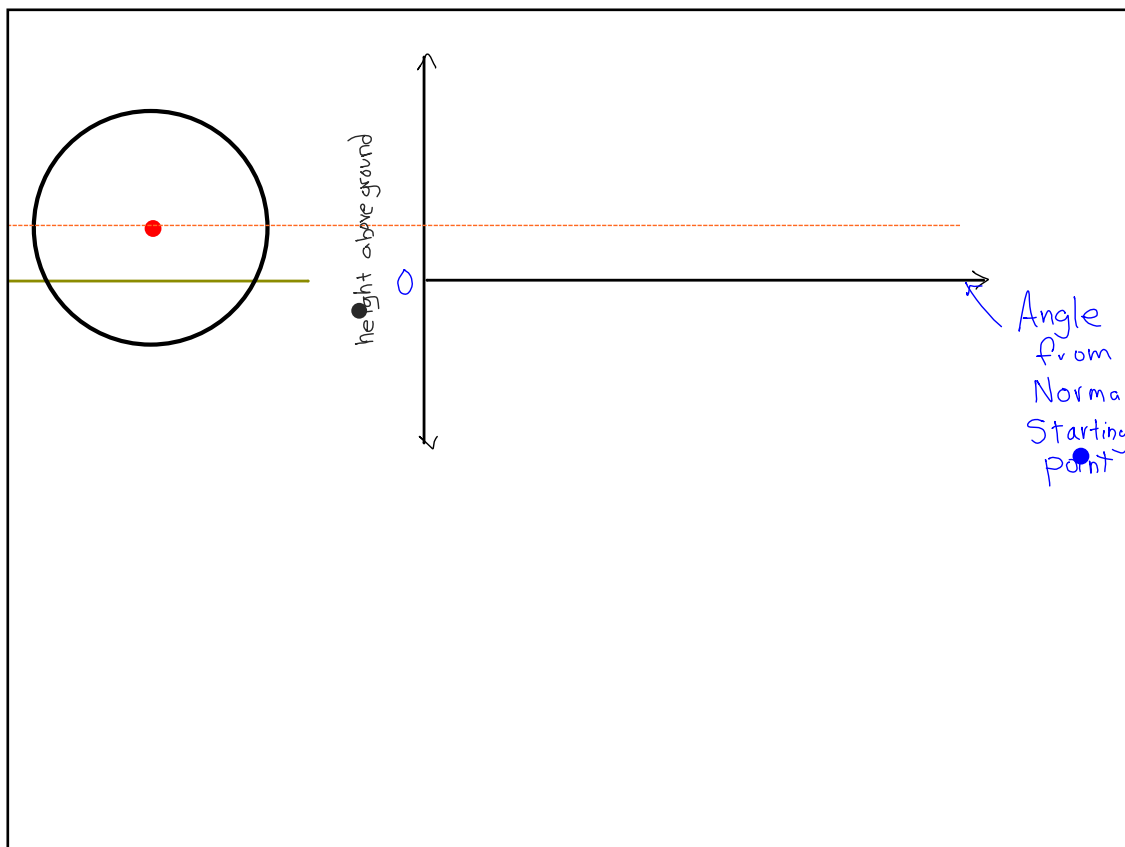
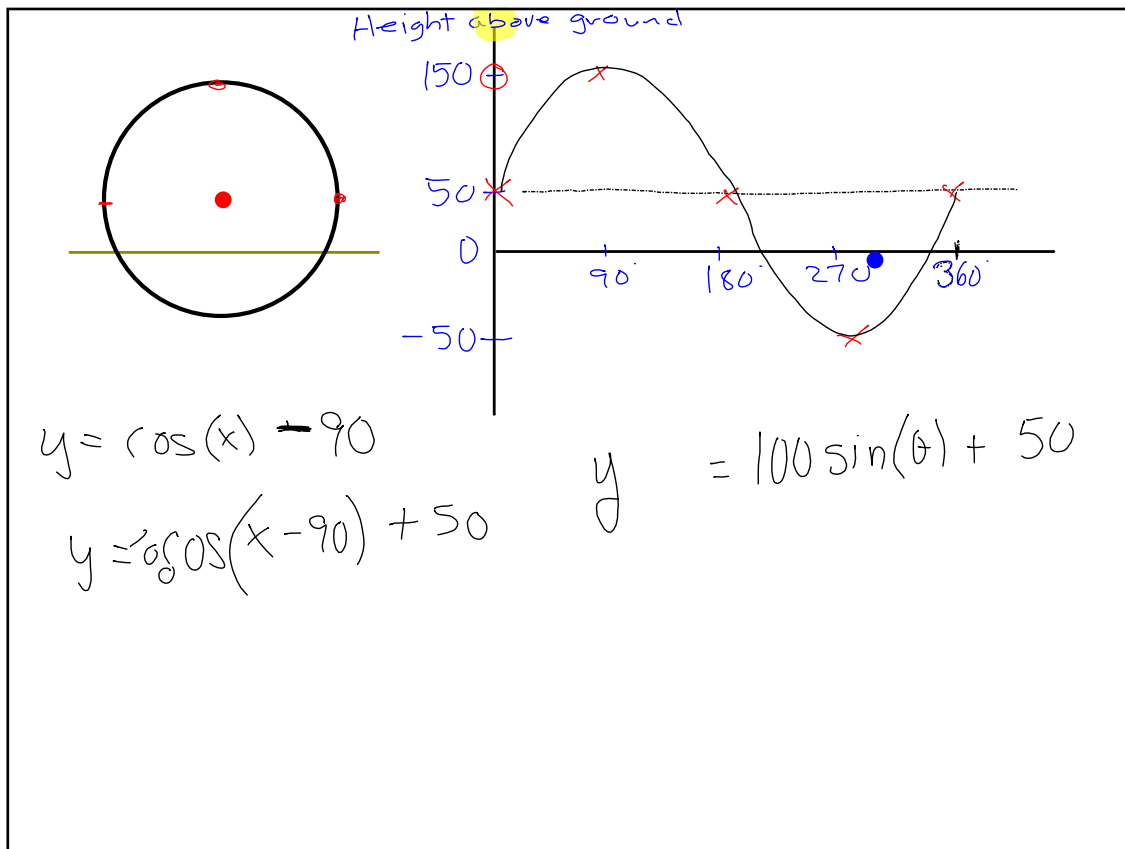
[To apply transformations]



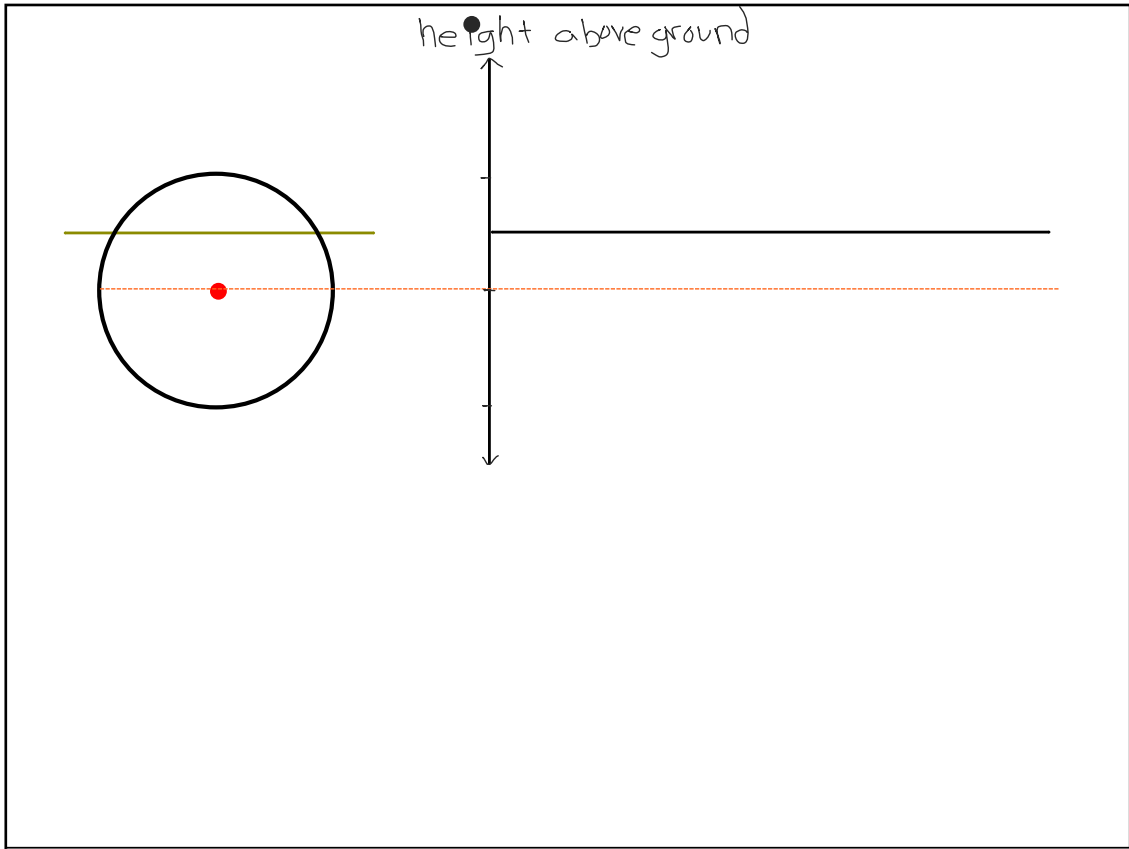
### Classwork

name \_\_\_\_\_

The Amusement Park has decided to imitate *The Screamer* but wants to make it even better. Their ride will consist of a circular track with a radius of 100 feet, and the center of the circle will be 50 feet ABOVE ground. Passengers will board at the normal spot which will now be 50 feet above ground (riders will climb up stairs to board another words). Write a function that relates the angle traveled *from the starting point* to the height of the rider above or below the ground. (HINT: Draw a diagram to help).

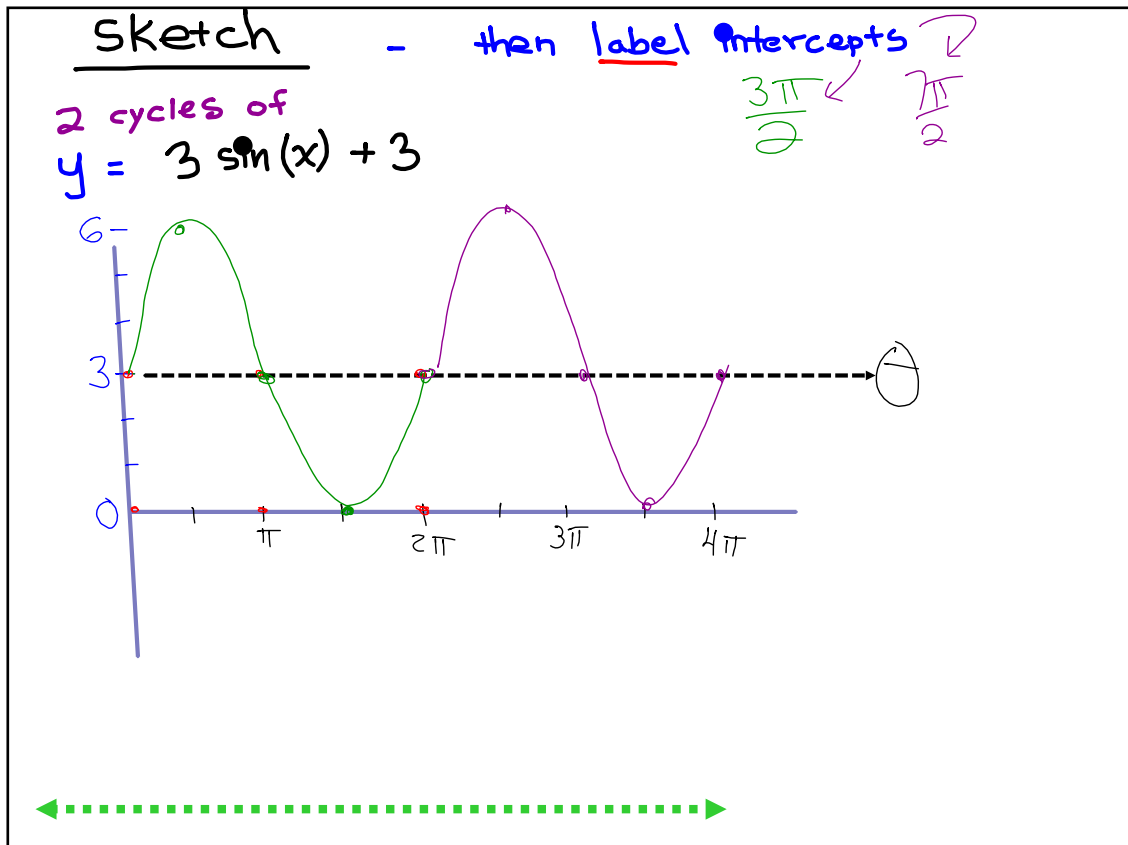


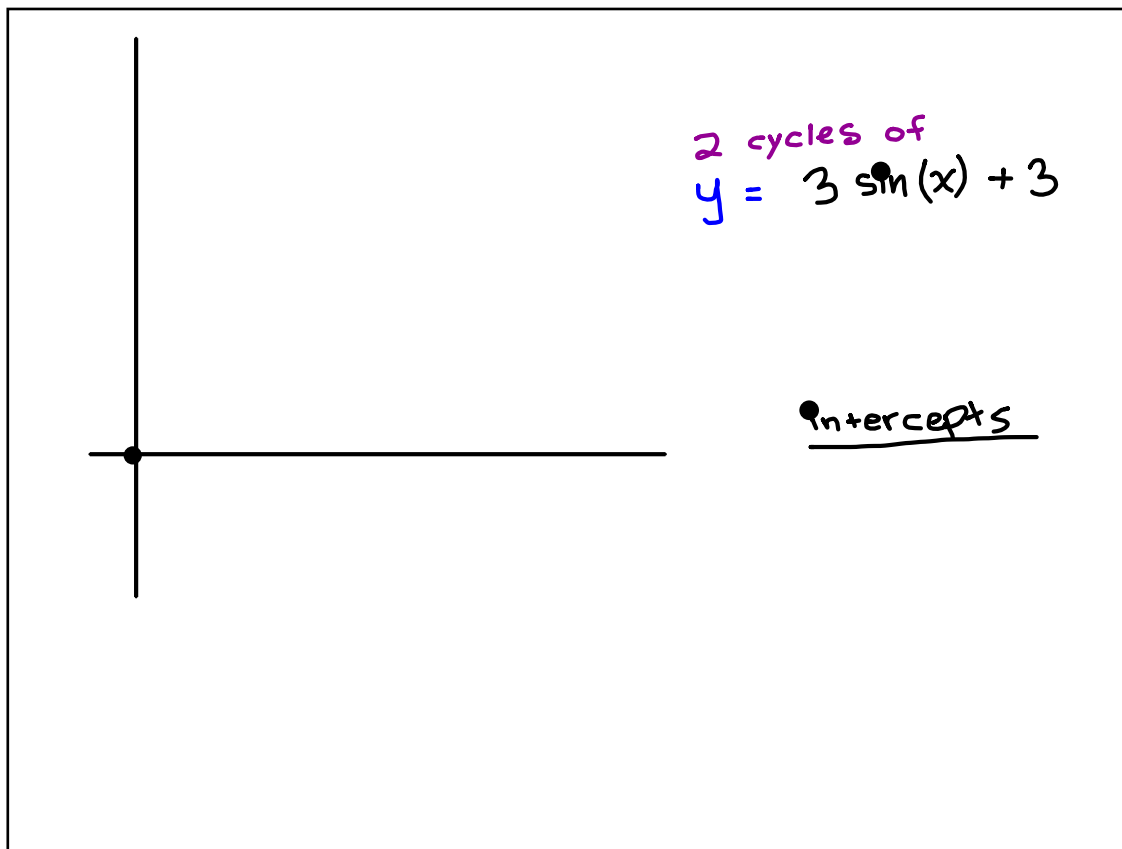




Sketch Artists

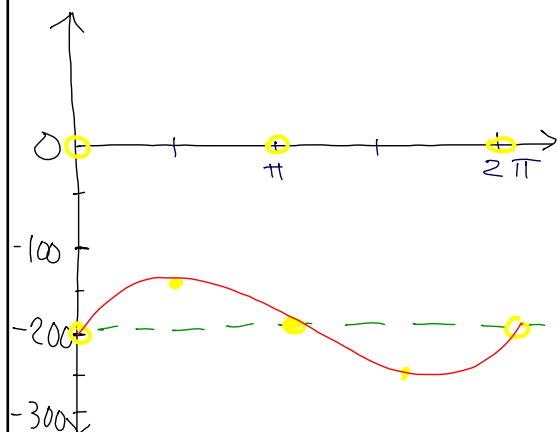
NOTES





Verify on GDC

Sketch  $y = 50 \sin(x) - 200$



• Sketch  $y = \cos \theta + 3$

## Four Question Assignment:

**7**....119

**10**....13a , 101a, 103b



