Before we begin, are there any questions from last day's work? Today's Learning Goal(s):

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

a) understand the 3 basic transformations: reflections, stretches/compressions, and translations

Note: There is no handout today.

Copy the goals on a blank sheet of paper.

Screens on next

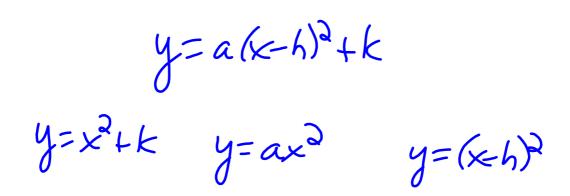
Use the "Desmos" link in Google Classroom to complete pp.174-175 Investigate A, B, & C.

Demo

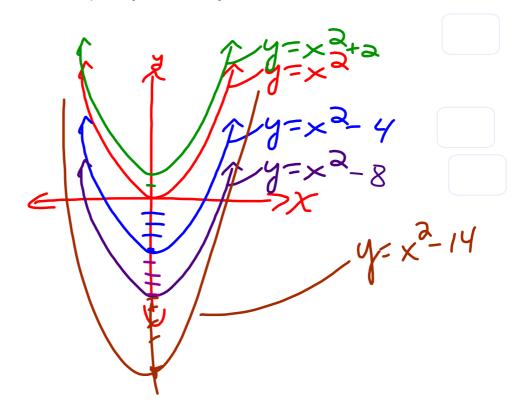
Next: READ p.177 "Key Concepts"

For the assigned work, Create sketches, not graphs: p. 178 #1, 2, 3, 4

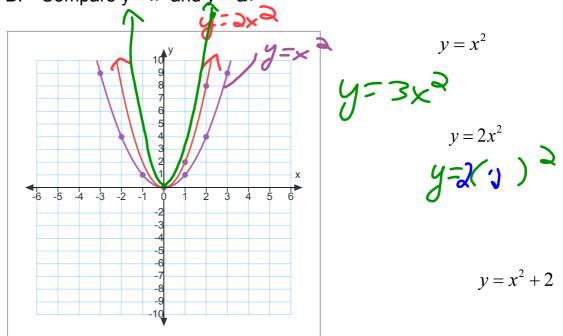
[start with  $y = x^2$ , then sketch transformation]



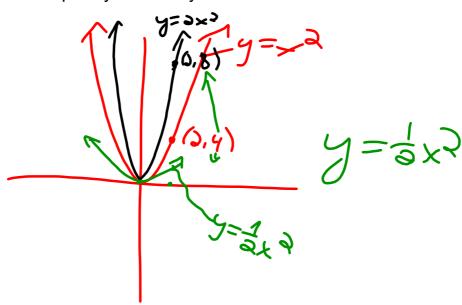
Investigate A: Compare  $y = x^2$  and  $y = x^2 + k$ 





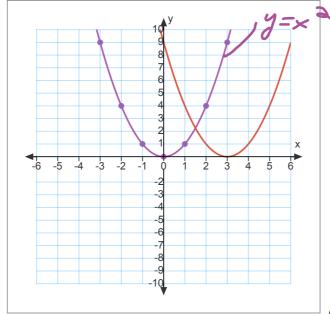


Investigate B: Compare  $y = x^2$  and  $y = ax^2$ 





see much further below, too



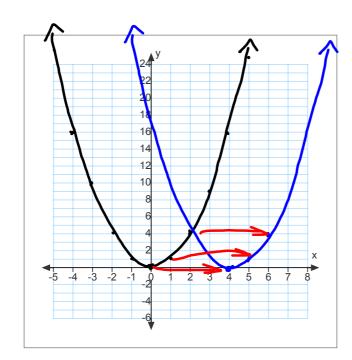
$$y = x^2$$

$$h = 3$$

$$y = \left(x - 3\right)^2$$

drag to grid

$$y = 2x^2$$



$$y = x^{2}$$

$$y = (x - 4)^{2}$$

$$y(4,0)$$

Use the "Desmos" link in Google Classroom to complete pp.174-175 Investigate A, B, & C.

Next: READ p.177 "Key Concepts"

For the assigned work, Create sketches, not graphs: p. 178 #1, 2, 3, 4 [start with  $y = x^2$ , then sketch transformation]

*Enrichment*: p.179 #12

