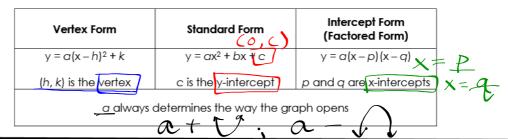
Algebra 1

Unit 8: Quadratic Functions

Notes

## Day 7 - Writing Equations of Parabolas from a Graph

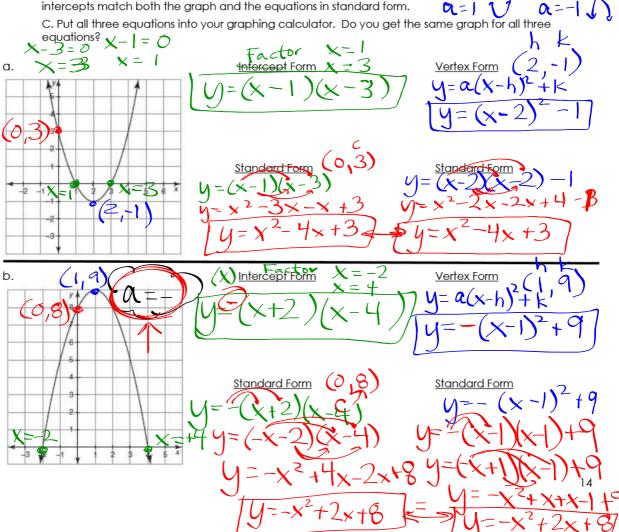
From days 5-8, you learned about three different forms of quadratic functions – vertex, standard, and factored form. Each form tells you something different about the graph.



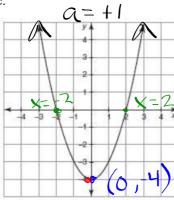
Writing Equations of Parabolas Given a Graph

For the following graphs:

A. Create an equation in both intercept and vertex form to describe the parabola. Assume there are no stretches or shrinks with each graph.



Algebra 1



Unit 8: Quadratic Functions

Intercept Form x = 2

$$y = (x+2)(x-2)$$

Notes  $y=a(x+b)^{2}+k$   $y=(x-0)^{2}+-4$   $y=x^{2}-4$ 

$$\chi^2 - 2x + 2x - 4$$
 $M = \chi^2 - 4$ 

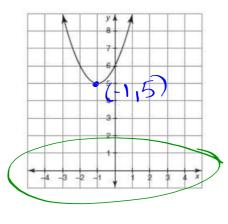
d.

$$\gamma = (\times -2)(\times -2)$$

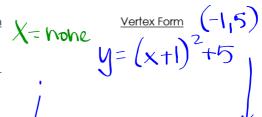
$$y = (x-2)^2$$

Standard Form

e.



none



Standard Form

15