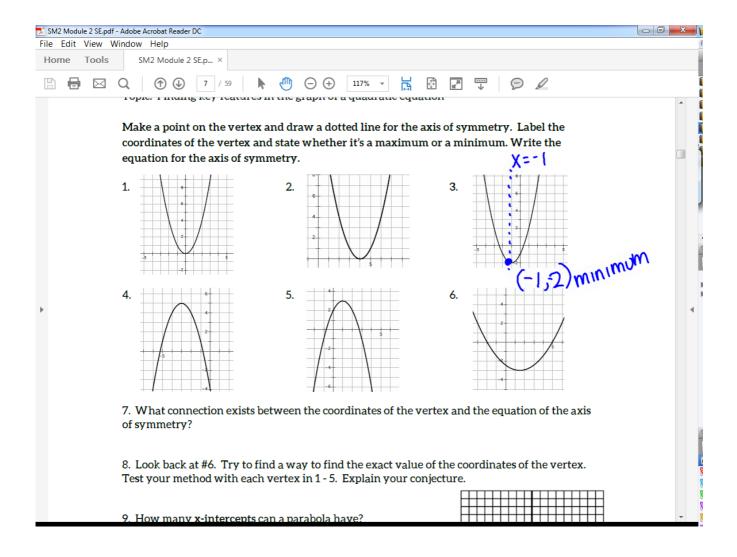
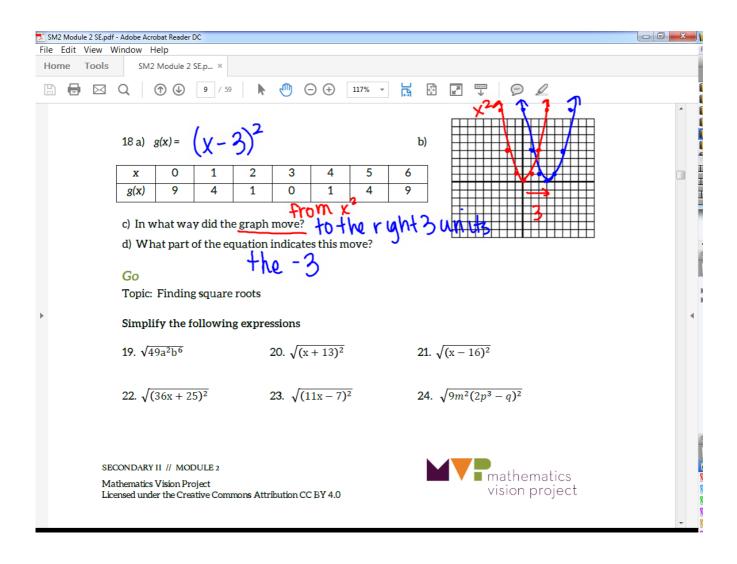
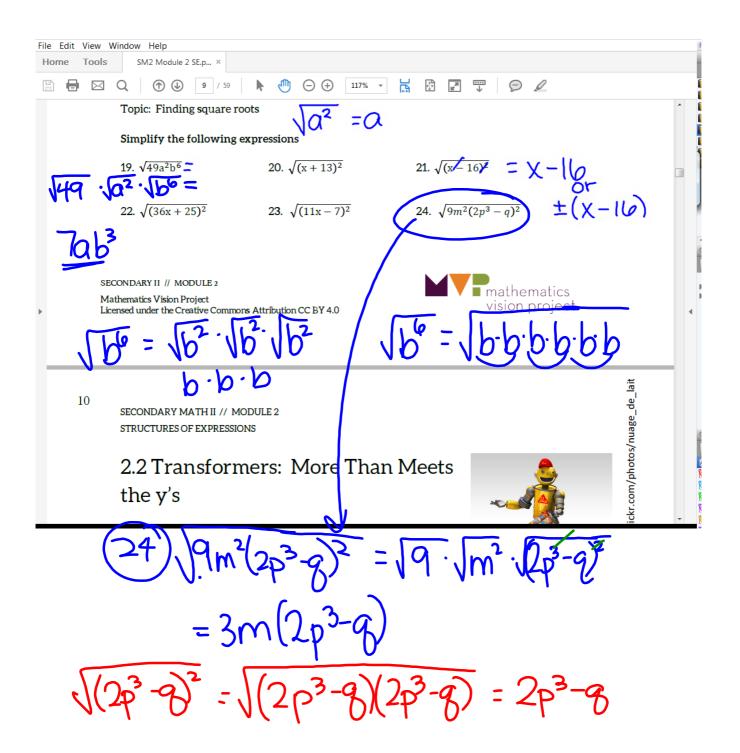
Questions on 2.1 HW? Quiz soon...

Rebekah Hansen Highland HS

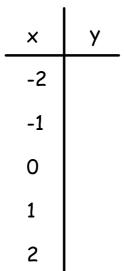


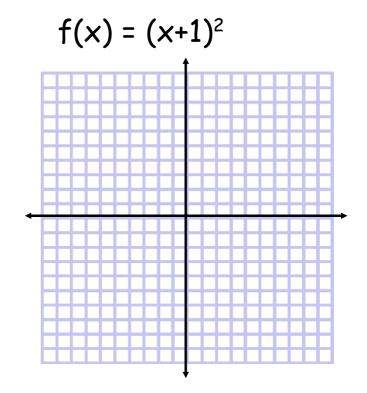




## Module 2 Quiz #1: Graphing Quadratics

Fill out the following table and graph the quadratic function. Label your points that are in the table!





SECONDARY MATH II // MODULE 2 STRUCTURES OF EXPRESSIONS

## 2.2 Transformers: More Than Meets the y's

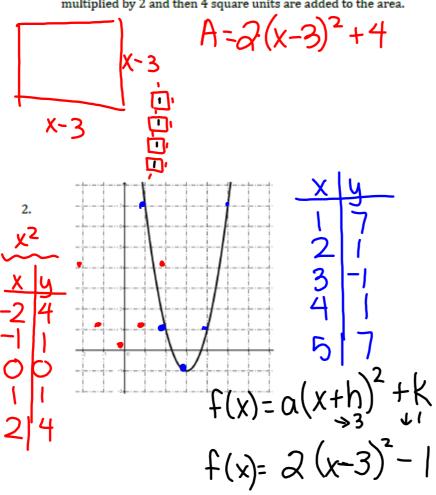
A Solidify Understanding Task

Write the equation for each problem below. Use a second representation to check your equation.



1. The area of a square with side length x, where the side length is decreased by 3, the area is multiplied by 2 and then 4 square units are added to the area.

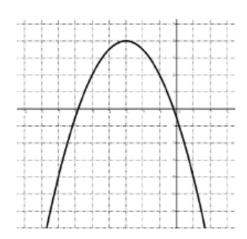
X



3.

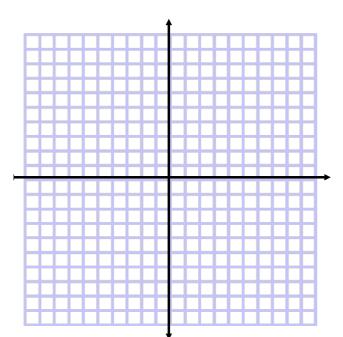
X	f(x)
-4	7
-3	2
-2	-1
-1	-2
0	-1
1	2
2	7
3	14
4	23

4.

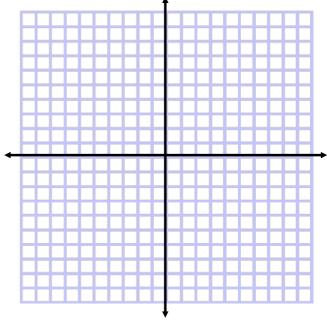


Graph each equation without using technology. Be sure to have the exact vertex and at least two correct points on either side of the line of symmetry.

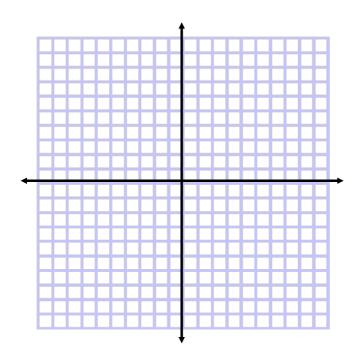
5. 
$$f(x) = -x^2 + 3$$



6. 
$$g(x) = (x+2)^2 - 5$$



7. 
$$h(x) = 3(x-1)^2 + 2$$



- 8. Given:  $f(x) = a(x h)^2 + k$ 
  - a. What point is the vertex of the parabola?
  - b. What is the equation of the line of symmetry?
  - c. How can you tell if the parabola opens up or down?
  - d. How do you identify the dilation?
  - 9. Does it matter in which order the transformations are done? Explain why or why not.

Homework

Finish 2.2 "Ready, Set, Go"