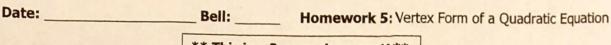
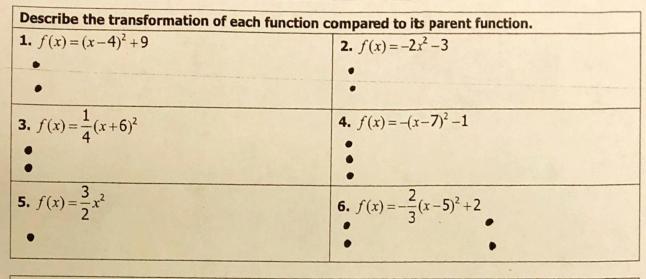


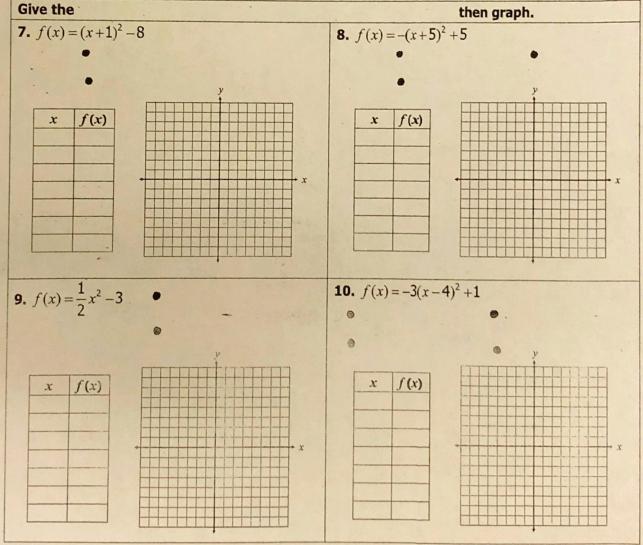
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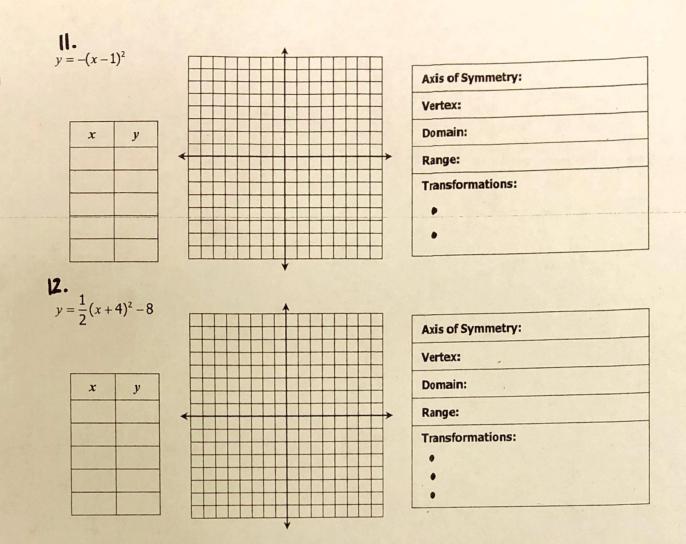
Unit 3: Parent Functions & Transformations



## \*\* This is a 2-page document! \*\*







Without graphing, describe the transformations of each equation from its parent function.

14.

13

 $y = -x^2 + 4$ 

0

G

Transformations:

 $y = 3(x-6)^2 - 2$ 

	Transformations:	
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The transformations to the parent function of a quadratic equation are given below. Write an equation of the new function in vertex form.

15 translated 3 units down16 translated 7 units right and 2 units up

15 Je 16 Je 17 Je 18 Je 1

11 reflected over the x-axis, then translated 5 units left

vertically stretched by a factor of 2, then translated 4 units left and 1 unit down