Math-2 © 2018 Kuta Software LLC. All rights SM2 HW #4-2 (xfrm Quad. Function)

Compare the following equation to the parent function for quadratics y = x².
 a) Give the location of the vertex (x,y).
 b) Identify the transformations that have been applied to the parent function.

$$y = 2x^2$$

3) Compare the following equation to the parent function for quadratics y = x².
a) Give the location of the vertex (x,y).
b) Identify the transformations that have been applied to the parent function.

 $y = 3x^2 + 2$

5) Compare the following equation to the parent function for quadratics y = x².
a) Give the location of the vertex (x,y).
b) Identify the transformations that have been applied to the parent function.

$$y = -5x^2 + 4$$

7) a) Identify the transformations that been applied to the parent function $y = x^2$ b) what is the equation for the graph?



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2) Compare the following equation to the parent function for quadratics y = x².
a) Give the location of the vertex (x,y).
b) Identify the transformations that have

been applied to the parent function.

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 $y = x^2 - 5$

4) Compare the following equation to the parent function for quadratics y = x².
a) Give the location of the vertex (x,y).
b) Identify the transformations that have been applied to the parent function.

 $y = (x - 2)^2$

6) Compare the following equation to the parent function for quadratics y = x².
a) Give the location of the vertex (x,y).
b) Identify the transformations that have been applied to the parent function.

$$y = 6(x+3)^2 - 1$$

8) a) Identify the transformations that been applied to the parent function y = x²
b) what is the equation for the graph?



9) a) Identify the transformations that been applied to the parent function y = x²
b) what is the equation for the graph?



11) a) Identify the transformations that been applied to the parent function $y = x^2$ b) what is the equation for the graph?



13) a) Identify the transformations that been applied to the parent function $y = x^2$ b) what is the equation for the graph?



10) a) Identify the transformations that been applied to the parent function $y = x^2$ b) what is the equation for the graph?



12) a) Identify the transformations that been applied to the parent function $y = x^2$ b) what is the equation for the graph?



14) a) Identify the transformations that been applied to the parent function $y = x^2$ b) what is the equation for the graph?

