

NAME: _____

A.G.5: Investigate and generalize how changing the coefficients of a function affect its graph.

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Consider the graph of the equation

$y = ax^2 + bx + c$, when $a \neq 0$. If a is multiplied by 3, what is true of the graph of the resulting parabola?

- [A] The new parabola is 3 units to the right of the original parabola.
- [B] The new parabola is narrower than the original parabola.
- [C] The new parabola is wider than the original parabola.
- [D] The vertex is 3 units above the vertex of the original parabola.

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[1] B _____