

Name: _____

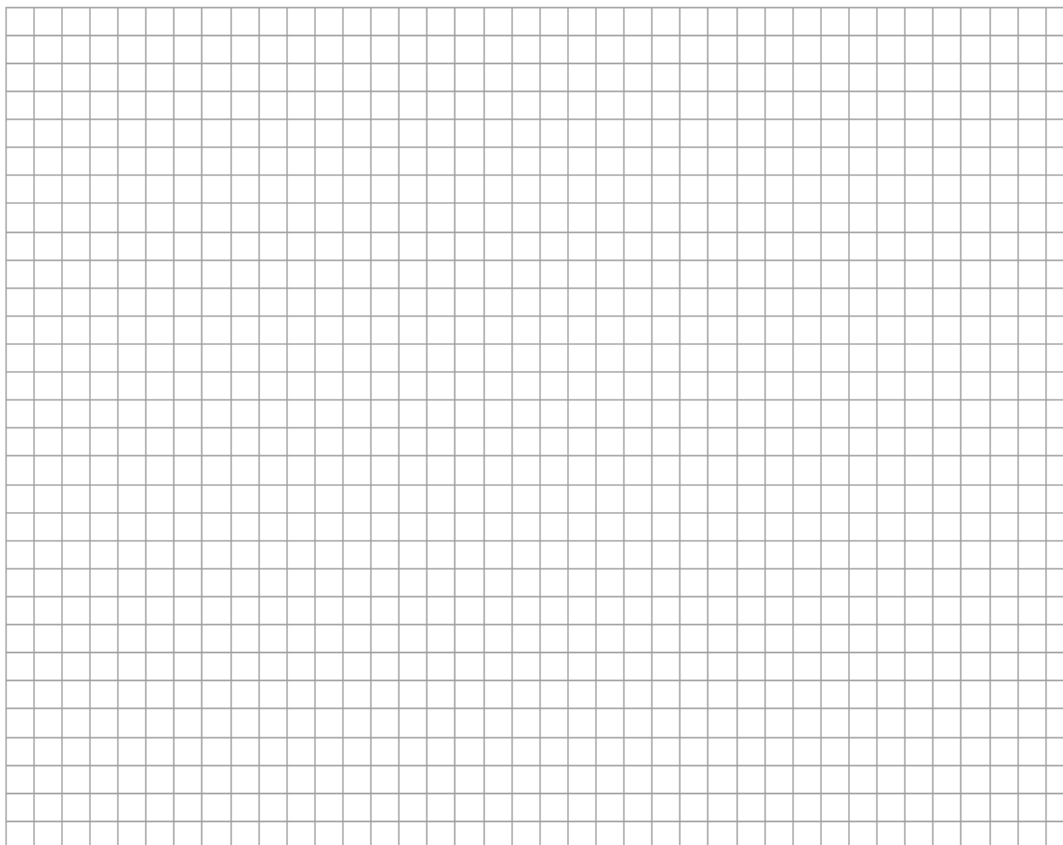
Show work needed to justify your answer.

Date: _____

HW: # 9: Math IBSL - Standard 9 - Transformations of Functions

5 points

1. Sketch the parent quadratic $y = x^2$, and the graph of $y = g(x)$ on the same axes. Then write down the coordinates of the vertex and the **equation** for the axis of symmetry for the graph of g .



a $g(x) = (x + 3)^2$

b $g(x) = -x^2 + 4$

c $g(x) = \frac{1}{4}x^2$

d $g(x) = 2(x - 4)^2 - 3$

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2. Describe the transformations of the graph of $f(x) = x^2$ that lead to the graph of g . Then write an equation for $g(x)$

