Algebra 1 5.4 HW **Name** _____ **Period** ____

1. Identify whether $g(x)$ is a reflection about a horizontal line of reflection or a vertical line of reflection.

a. $f(x) = 2^x$, $g(x) = -(2^x)$

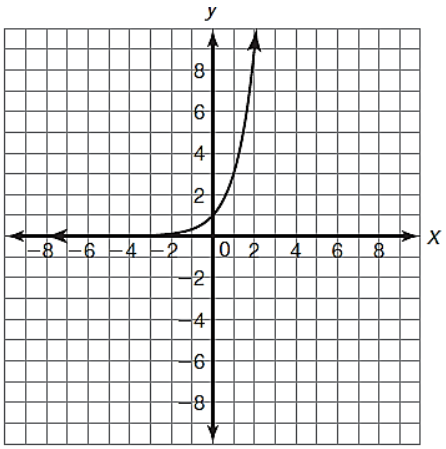
b. $f(x) = 2^x$, $g(x) = 2^{-x}$

c. $f(x) = 3^x + 7$, $g(x) = 3^{-x} + 7$

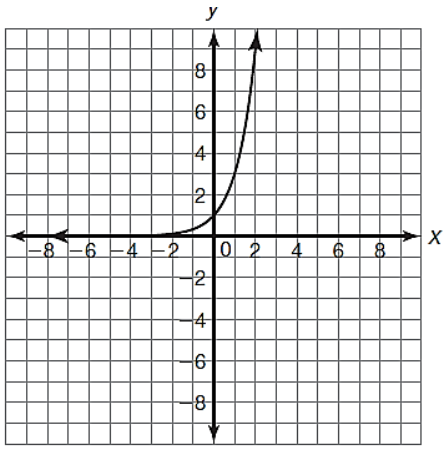
d. $f(x) = 4^x - 3$, $g(x) = -(4^x - 3)$

2. Each coordinate plane shows the graph of $f(x)$. Sketch the graph of $g(x)$.

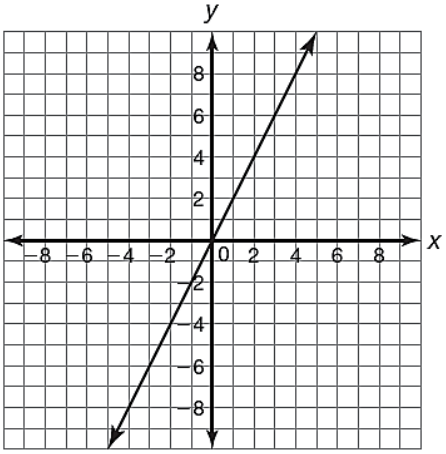
a. $g(x) = -f(x)$



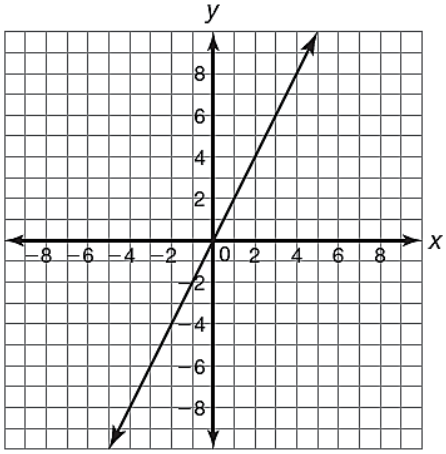
b. $g(x) = f(-x)$



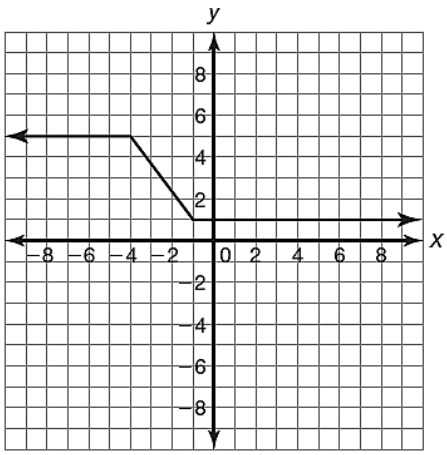
c. $g(x) = -f(x)$



d. $g(x) = f(-x)$



e. $g(x) = -f(x)$



f. $g(x) = f(-x)$