Algebra 2 Name_____ ID: 1

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Review - Chapter 1

Date_____ Period____

Transform the given function $f(x)$ as described and write the resulting function as an equation.

1) $f(x) = x^2$
reflect across the x-axis
translate left 3 units

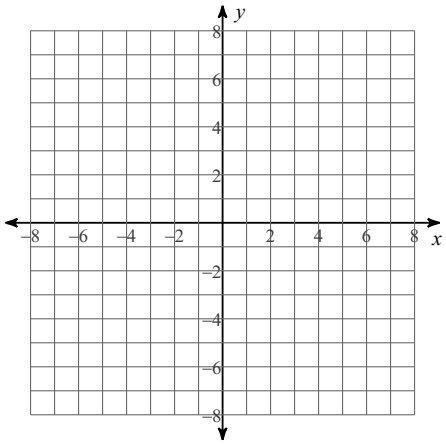
2) $f(x) = x^3$
reflect across the x-axis
translate left 2 units

3) $f(x) = |x|$
reflect across the x-axis
translate up 1 unit

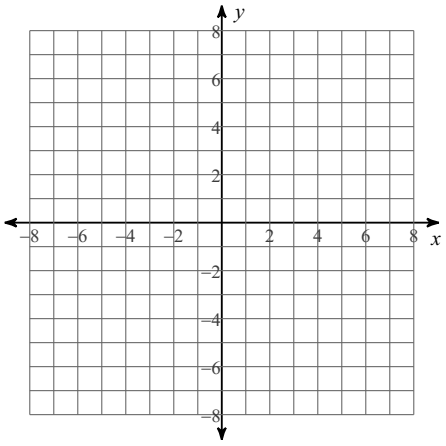
4) $f(x) = |x|$
translate right 2 units
translate up 1 unit

Sketch the graph of each function.

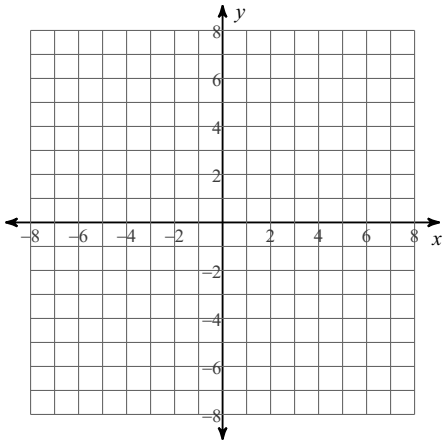
5) $g(x) = (x + 2)^3 - 2$



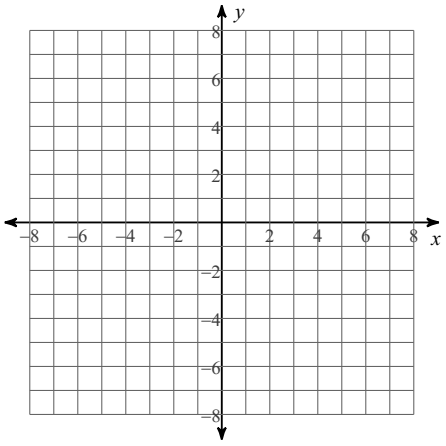
6) $g(x) = -|x| - 1$



7) $g(x) = \frac{1}{3}x^2 - 3$



8) $g(x) = \frac{1}{2} \cdot |x + 2|$



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