**Name: Date:**

**CC Algebra**

**Functions Review 2**

1. Given the parent function y = |x| write the equation of the function represented by the accompanying graph?
2. Given the graph of the line *y = 2x,* What is the transformation if you add 4 to the equation?
3. Is the equation *A* = 21000(0.88)*t* a model of exponential growth or exponential decay, and what is the rate (percent) of change per time period?
4. Consider the graph of *f*(*x*) = *x*3, if it is translated 5 units to the left and 7 units down, what is the resulting equation?
5. On the set of axes below, graph *y* = 2|*x* + 3| over the interval −7 ≤ *x* ≤ 1.
6. The number of carbon atoms in a fossil is given by the function where x represents the number of years since being discovered. What is the percent change each year? Explain how you arrived at your answer.

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