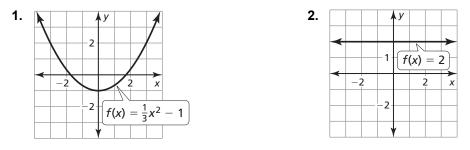
1.1 **Practice A**

In Exercises 1 and 2, identify the function family to which f belongs. Compare the graph of f to the graph of its parent function.



3. You purchased a computer for your business for \$800. Using straight-line depreciation, the amount of depreciation allowed for each year after the purchase is given by the function f(x) = 800 - 114.29x. What type of function can you use to model the data?

In Exercises 4–9, graph the function and its parent function. Then describe the transformation.

5. f(x) = x - 3 **6.** $g(x) = x^2 + 2$ **4.** h(x) = x + 2**7.** $f(x) = (x - 1)^2$ **8.** h(x) = |x + 4| **9.** f(x) = 5

In Exercises 10–15, graph the function and its parent function. Then describe the transformation.

- **11.** $g(x) = \frac{1}{2}x$ **12.** $h(x) = 3x^2$ **10.** f(x) = 3x**14.** h(x) = 2|x| **15.** $f(x) = \frac{5}{2}x$
- **13.** $g(x) = \frac{1}{4}x^2$

In Exercises 16–18, use a graphing calculator to graph the function and its parent function. Then describe the transformations.

- **16.** $f(x) = \frac{1}{3}x 1$ **17.** h(x) = 2|x| 3 **18.** $g(x) = \frac{5}{3}x^2 + 2$
- **19.** In the same coordinate plane, sketch the graph of a parent absolute-value function and the graph of an absolute-value function that has no x-intercepts. Describe the transformation(s) of the parent function.