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### 1.1 Practice A

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

2.

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 $f(x)=800-114.29 x$. 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.
4. $h(x)=x+2$
5. $f(x)=x-3$
6. $g(x)=x^{2}+2$
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.
10. $f(x)=3 x$
11. $g(x)=\frac{1}{2} x$
12. $h(x)=3 x^{2}$
13. $g(x)=\frac{1}{4} x^{2}$
14. $h(x)=2|x|$
15. $f(x)=\frac{5}{2} x$

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.

