

1.9 Homework

1-6 all, 8 – 14 even p. 53

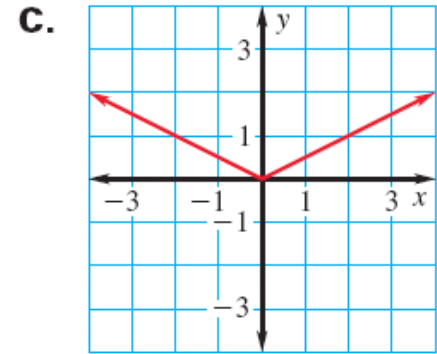
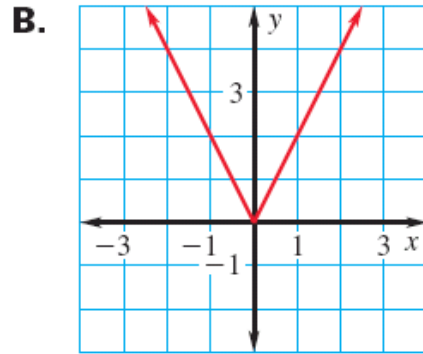
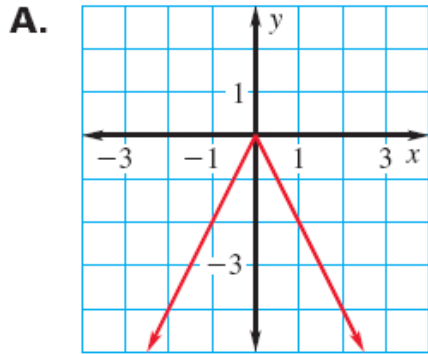
1-6 all, 8, 12 p. 54

Match the function with its graph.

1. $f(x) = 2|x|$ **B**

2. $f(x) = -2|x|$ **A**

3. $f(x) = \frac{1}{2}|x|$ **C**

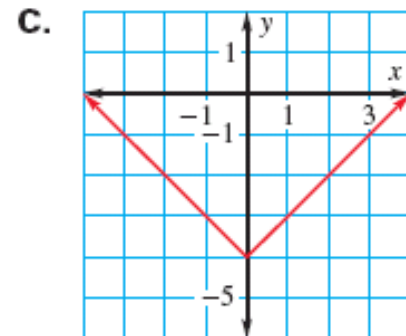
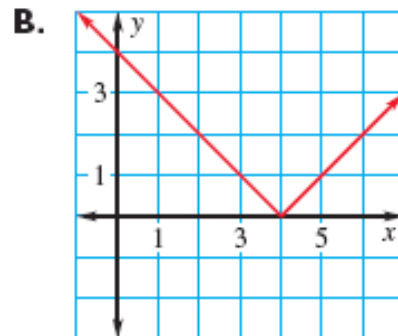
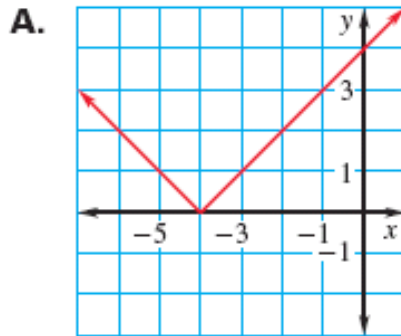


Match the function with its graph.

4. $f(x) = |x - 4|$ **B**

5. $f(x) = |x| - 4$ **C**

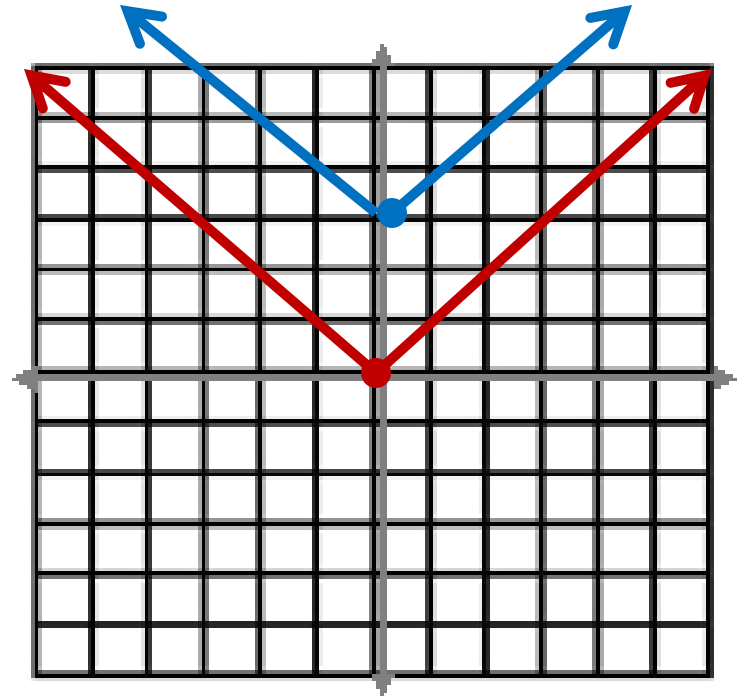
6. $f(x) = |x + 4|$ **A**



Graph the function. Compare the graph with the graph of $f(x) = |x|$.

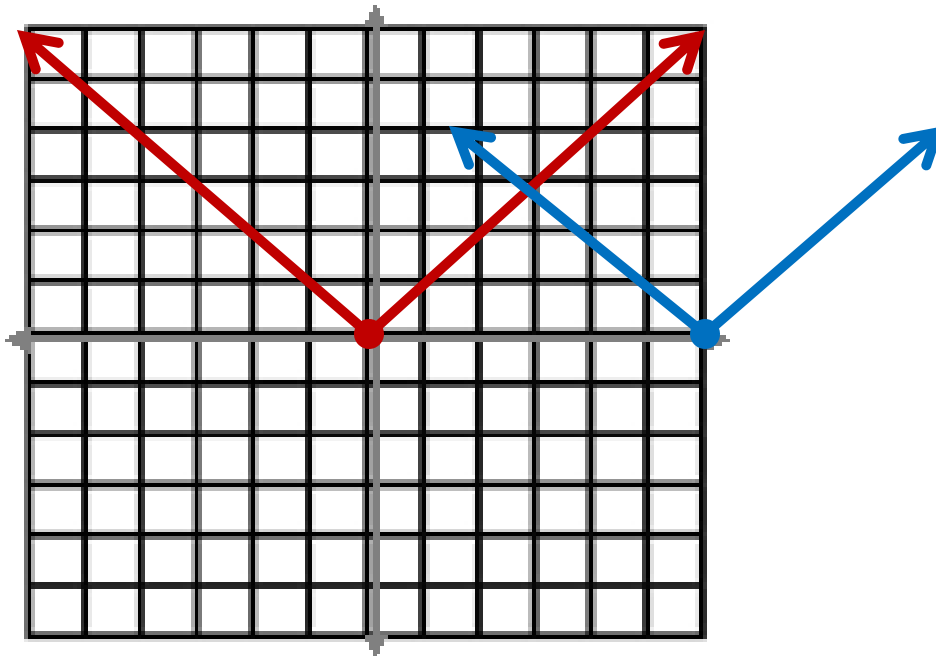
The graph of g is a vertical shift 3 units up of the graph of f .

8. $g(x) = |x| + 3$



10. $g(x) = |x - 6|$

The graph of g is a horizontal shift 6 units right of the graph of f .

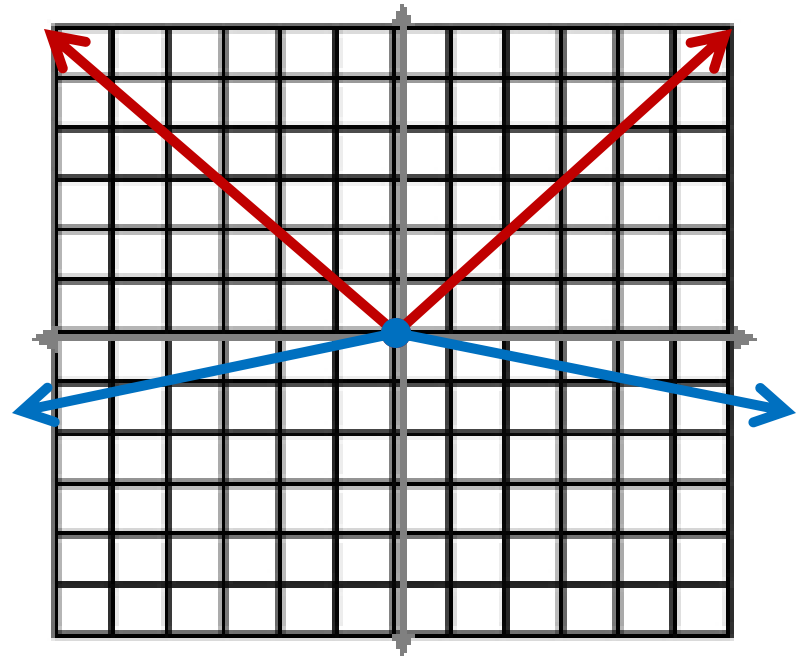
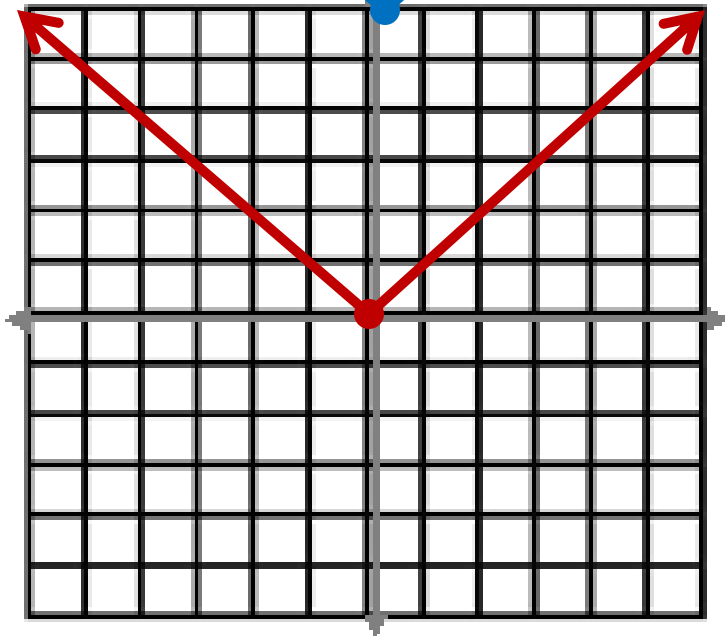


Graph the function. Compare the graph with the graph of $f(x) = |x|$.

- 12.** $g(x) = -\frac{1}{4}|x|$ The graph of g is a vertical shrink using a scale factor of .25 and a reflection in the x-axis.

- 14.** $g(x) = |x| + 6$

The graph of g is a vertical shift 6 units up of the graph of f .

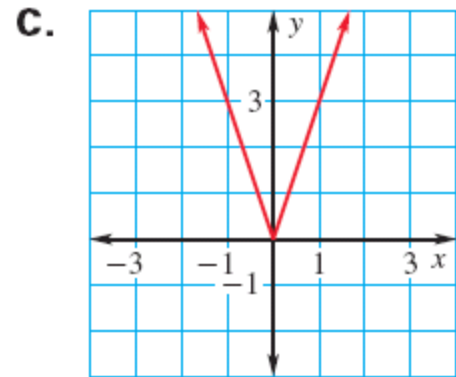
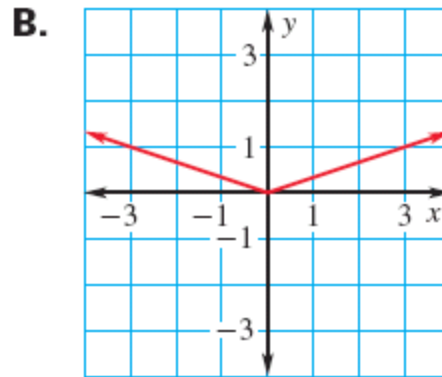
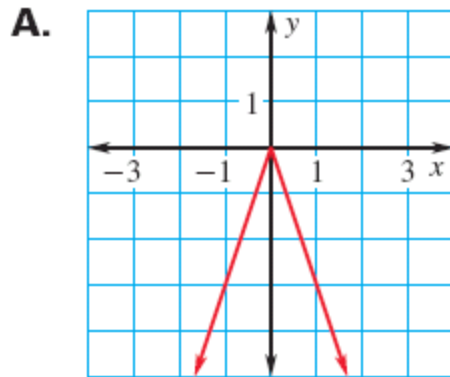


Match the function with its graph.

1. $f(x) = 3|x|$ **C**

2. $f(x) = -3|x|$ **A**

3. $f(x) = \frac{1}{3}|x|$ **B**

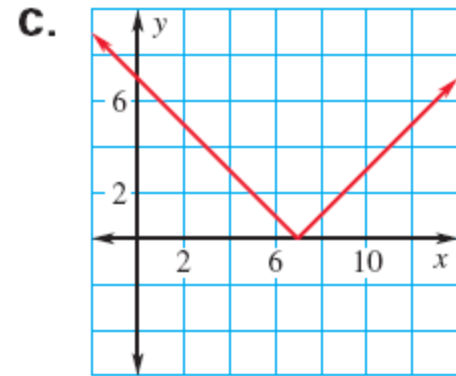
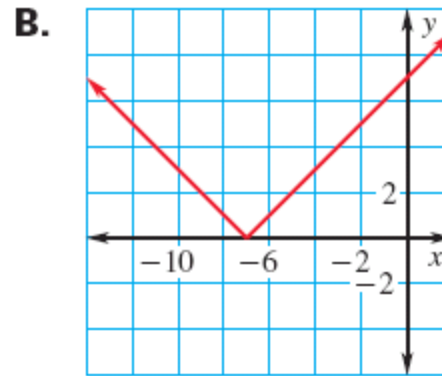
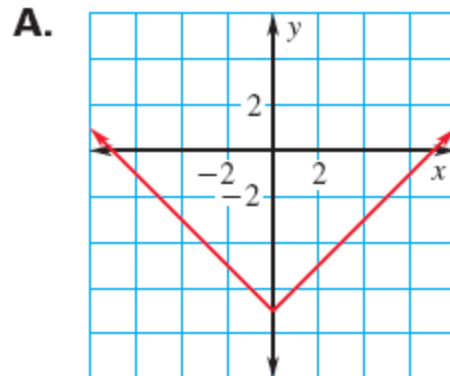


Match the function with its graph.

4. $f(x) = |x - 7|$ **C**

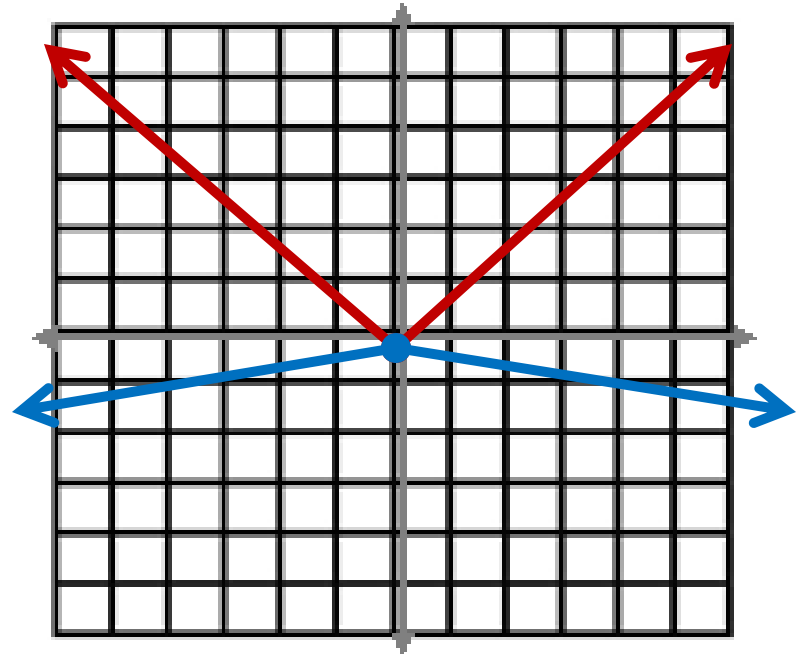
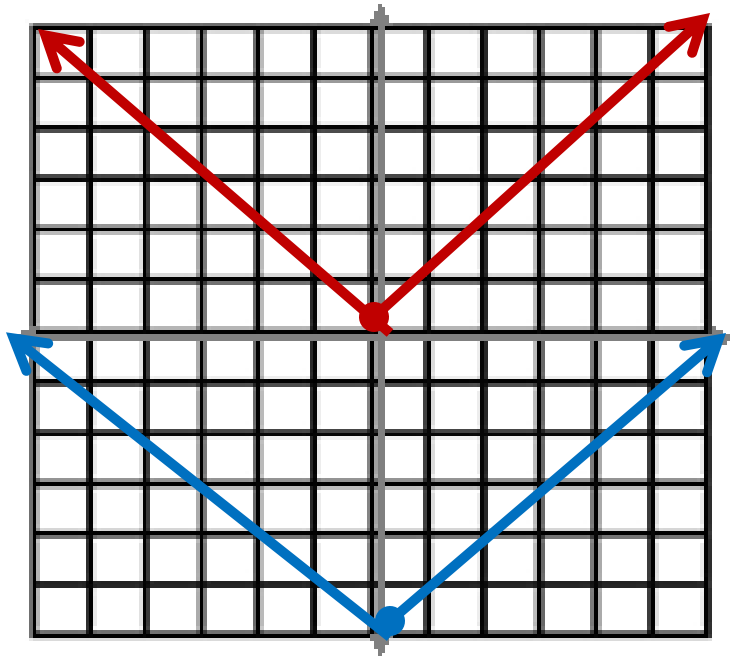
5. $f(x) = |x| - 7$ **A**

6. $f(x) = |x + 7|$ **B**



Graph the function. Compare the graph with the graph of $f(x) = |x|$.

- 8.** $g(x) = |x| - 6$ The graph of g is a vertical shift 6 units down of the graph of f .



12. $g(x) = -0.25|x|$

The graph of g is a vertical shrink using a scale factor of .25 and a reflection in the x-axis.