

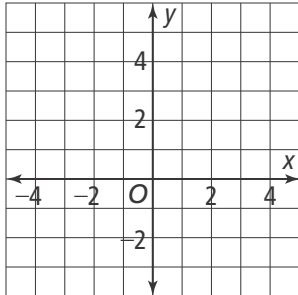


5-1 Additional Practice

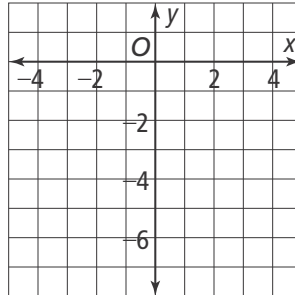
The Absolute Value Function

Graph each absolute value function.

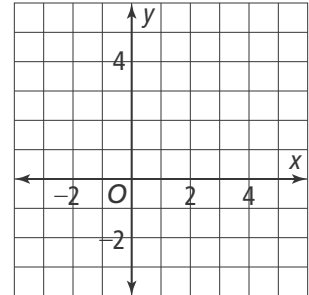
1. $f(x) = 3|x|$



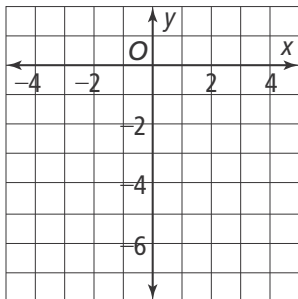
2. $g(x) = -\frac{1}{2}|x|$



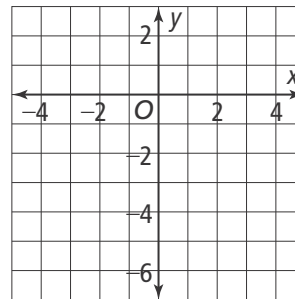
3. $h(x) = 4|x|$



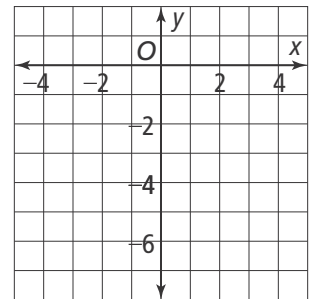
4. $f(x) = -2|x|$



5. $g(x) = \frac{1}{4}|x|$

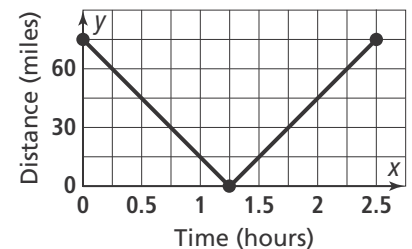


6. $h(x) = -|x|$



7. How does the value of a determine the range for $f(x) = a|x|$?

8. A bus is traveling between two cities that are in neighboring states. The graph of the function $d(t) = 60|t - 1.25|$ shows the distance of the bus in miles from the state line, where t represents time in hours.



a. What does the graph tell you about the bus ride?

b. What is the average rate of change from 1.5 h to 2 h? What does the average rate of change represent?