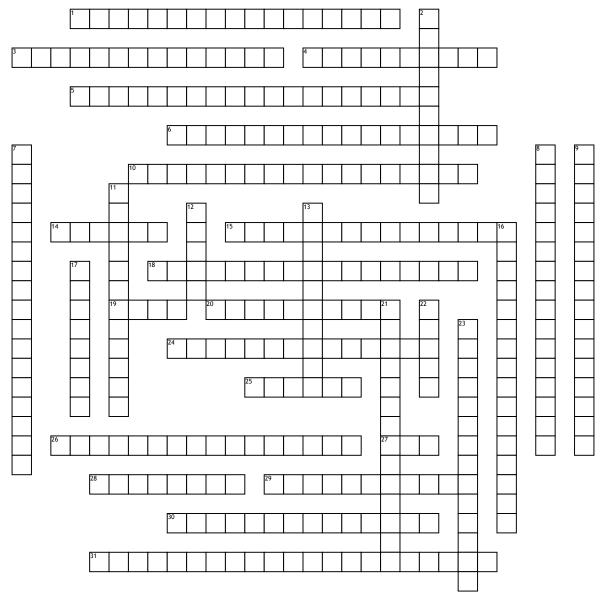
Name:	Date:	Period:

Chapter 3 Vocabulary



Across

- 1. A group of functions with similar characteristics
- **3.** A function whose graph is a nonvertical line **4.** An absolute value function written in the form
- $f(x) = a \mid x h \mid + k$, where $a \neq 0$
- 5. The variable that represents the input values
- of a function
 6. A function that does not have a constant rate
- of change and whose graph is not a line
- 10. A linear equation written in the form y = mx +
- 14. The set of all possible input values
- 15. A transformation that causes the graph of a function to stretch away from the x-axis when all the y-coordinates are multiplies by a factor a, where a > 1
- 18. The variable that represents the output of a function
- **19.** The change in y between any two points on a line
- **20.** The y-coordinate of a point where the graph crosses the y-axis
- **24.** A set of input values that consists of only certain numbers in an interval

- 25. The point where a graph changes direction
- **26.** Another name for y denoted as f(x) and read as "the value of f at x" or "f of x"
- 27. The change in x between any two points on a line
- 28. A pairing of inputs with outputs
- **29.** A transformation that shifts a graph horizontally and/or vertically but does not change the size, shape, or orientation of the graph
- **30.** A transformation that causes the graph of a function to shrink toward the x-axis when all the y-coordinates are multiplied by a factor a, where 0<a<1
- **31.** A function that contains an absolute value expression

<u>Down</u>

- 2. A transformation that flips a graph over a line called the line of reflection
- 7. A transformation that causes the graph of a function to stretch away from the y-axis when all of the x-coordinates are multiplied by a factor a, where 0 < a < 1
- **8.** A linear equation written in the form y = 0x + b or y = b

- **9.** A set of input values that consists of all numbers in an interval
- 11. A linear equation written in the form Ax + By = C, where A, V, and C are real numbers and A and B are not both zero
- **12.** The rate of change between any two points on a line
- a line
 13. The x-coordinate of a point where the graph crosses the x-axis
- 16. A transformation that causes the graph of a function to shrink toward the y-axis when all the x-coordinates are multiplied b a factor a, where a>1
 17. A relation that pairs each input with exactly one output
- 21. A change in the size, shape, position, or orientation of a graph
- 22. The set of all possible output values23. The most basic function in a family of

functions