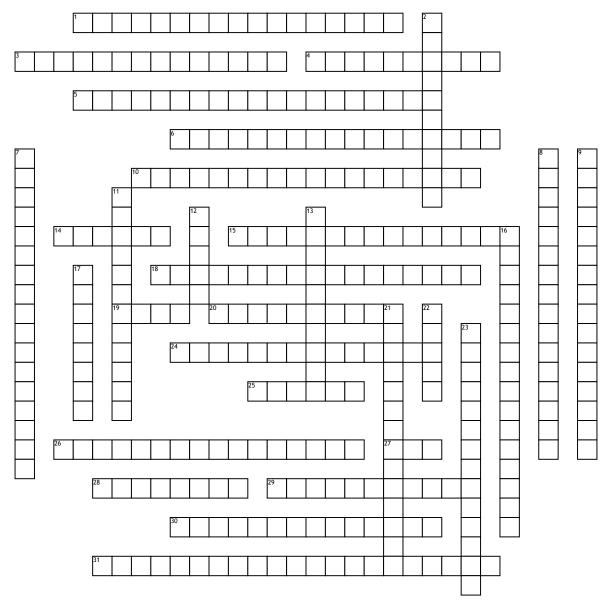
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Chapter 3 Vocabulary



Across

- $\textbf{1.} \ \textbf{A} \ \textbf{group} \ \textbf{of functions} \ \textbf{with similar characteristics}$
- 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
- ${\bf 6.}$ 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 + b**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
- ${\bf 24.}~{\rm A}~{\rm set}$ 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
- ${\bf 31.}~{\bf A}$ function that contains an absolute value expression

Down

- **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 $% \left(1\right) =\left(1\right) \left(1$
- **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
- ${\bf 17.}~{\rm A}~{\rm relation}$ 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 values
- 23. The most basic function in a family of functions