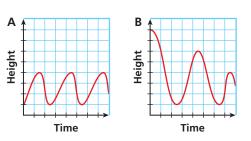


Quiz for Lessons 4-1 Through 4-4

6 4-1 Graphing Relationships

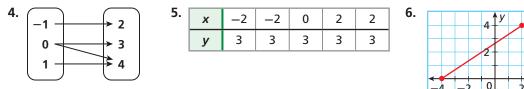
Choose the graph that best represents each situation.

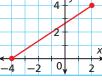
- **1.** A person bungee jumps from a high platform.
- 2. A person jumps on a trampoline in a steady motion.
- **3.** Xander takes a guiz worth 100 points. Each guestion is worth 20 points. Sketch a graph to show his possible score if he misses 1, 2, 3, 4, or 5 questions.



Relations and Functions 4-2

Give the domain and range of each relation. Tell whether the relation is a function. Explain.





Δ -12

Writing Functions

Determine a relationship between the *x*- and *y*-values. Write an equation.

7.	x	1	2	3	4	- x	1	2	3
	У	-6	-5	-4	-3	У	-3	-6	-9

9. A printer can print 8 pages per minute. Identify the dependent and independent variables for the situation. Write a rule in function notation.

Evaluate each function for the given input values.

10. For f(x) = 3x - 1, find f(x) when x = 2.

11. For $g(x) = x^2 - x$, find g(x) when x = -2.

12. A photographer charges a sitting fee of \$15 plus \$3 for each pose. Write a function to describe the situation. Find a reasonable domain and range for up to 5 poses.

4-4 Graphing Functions

Graph each function for the given domain.

13.
$$2x - y = 3$$
; D: $\{-2, 0, 1, 3\}$ **14.** $y = 4 - x^2$; D: $\{-1, 0, 1, 2\}$ **15.** $y = 3 - 2x$; D: $\{-1, 0, 1, 3\}$

Graph each function.

- **18.** $v = x^2 + 1$ **17.** y = |x| - 3**16.** x + y = 6
- **19.** The function y = 8x represents how many miles y a certain storm travels in x hours. Graph the function and estimate the number of miles the storm travels in 10.5 h.