1. no   **2.** no   **3.** yes

4. no   **5.** yes   **6.** no

7. no   **8.** yes

9.

x	$x + 7$	$f(x)$
1	$1 + 7$	8
2	$2 + 7$	9
3	$3 + 7$	10
4	$4 + 7$	11

13.

x	$15 - x$	$f(x)$
1	$15 - 1$	14
2	$15 - 2$	13
3	$15 - 3$	12
4	$15 - 4$	11

11.

x	x^2	$f(x)$
1	1^2	1
2	2^2	4
3	3^2	9
4	4^2	16

15.

x	$\frac{1}{4}x$	y
1	$\frac{1}{4}(1)$	$\frac{1}{4}$
2	$\frac{1}{4}(2)$	$\frac{1}{2}$
3	$\frac{1}{4}(3)$	$\frac{3}{4}$
4	$\frac{1}{4}(4)$	1

17. $\{0.5, 53\}$

19. $\{-27, -7, -2, 8, 48\}$

21. no

23. yes; $\{-4, -1, 0, 3\}$; $\{-4\}$

25. No; two 4-year-old iguanas may have different lengths.

27. $\{-3, 3, 15.8\}$

29. $\{-0.5, 0, 2.7\}$

31. a. $\{-300, -210, 0, 72\}$

   b. Domain is the number of cameras sold, and range is the profit.
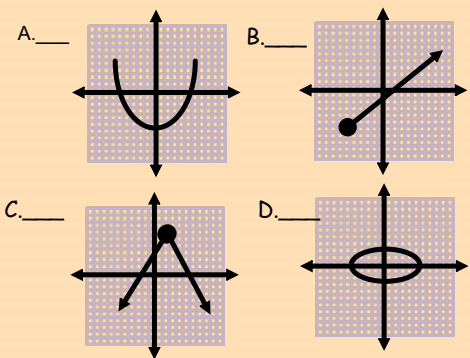
33. no

35. yes

41. a. Answers may vary. Sample: The cost appears to be far too little.

   b. Answers may vary. Sample: The student failed to convert hours to minutes.

   c. $10.80

   d. whole numbers; positive numbers

A._____

B._____

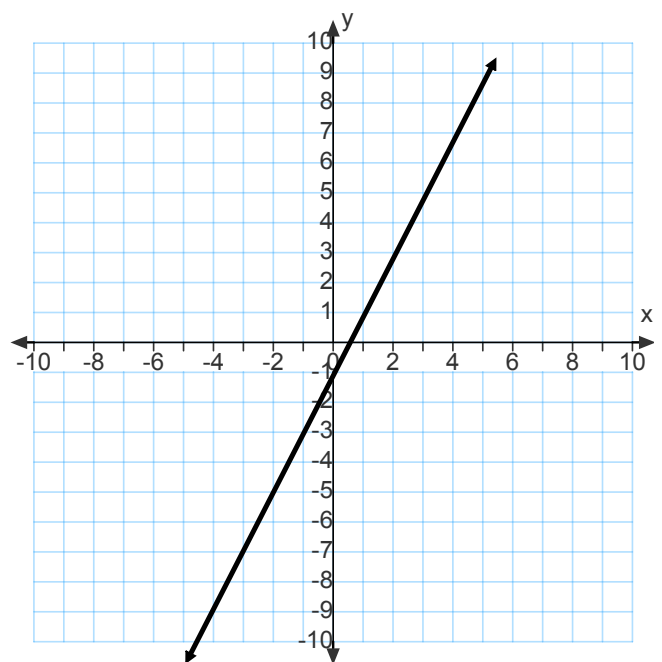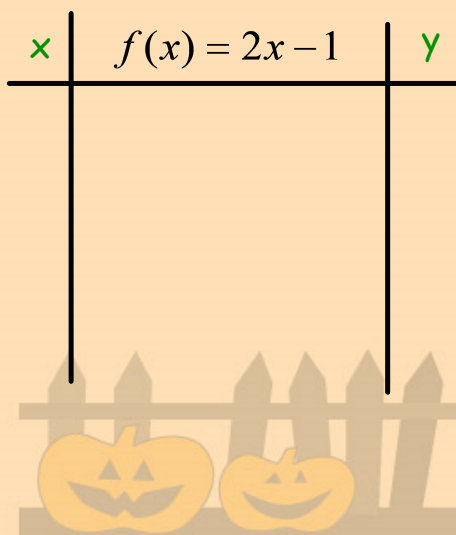C._____

D._____

Section 5.3
Function Rules, Tables
and Graphs

Multiple Personalities
of a Function

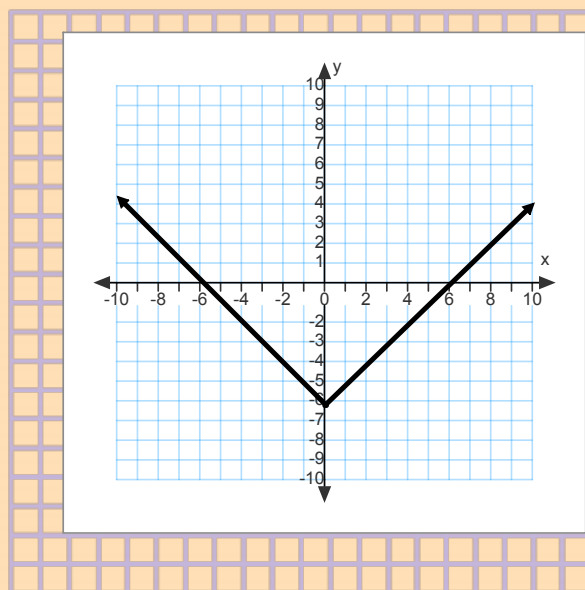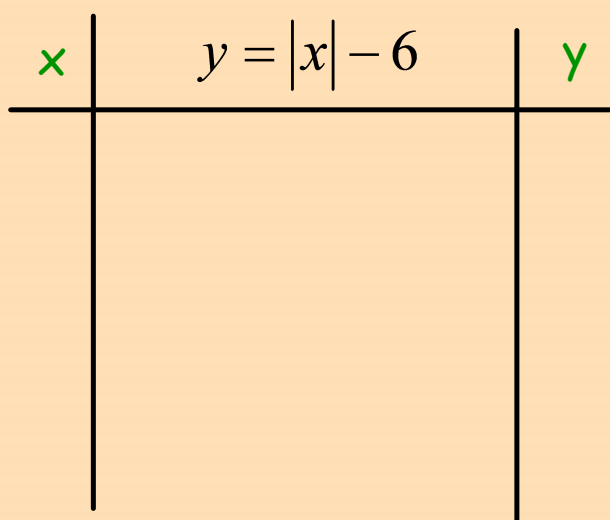Function Rule shows how
variables are related.

$f(x) = 2x - 1$

Table - specific input
and outputs

x	$f(x) = 2x - 1$	Y

Domain:
Range:

Graph the function $y = |x| - 6$

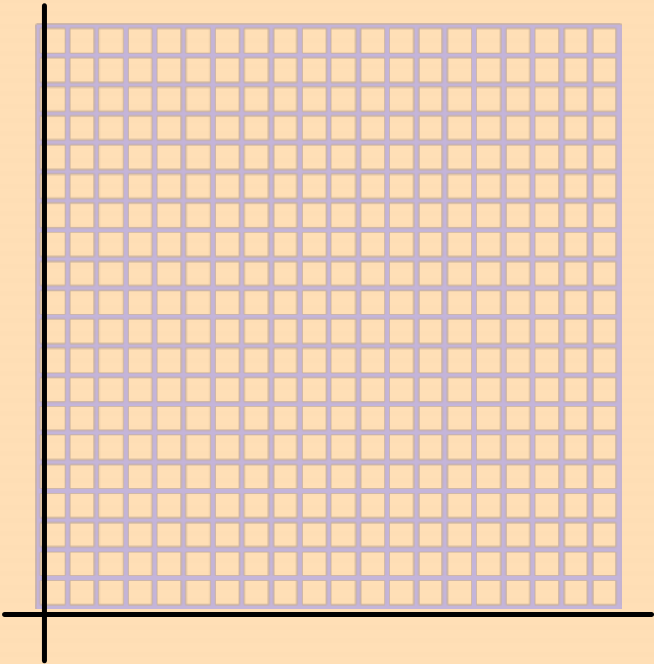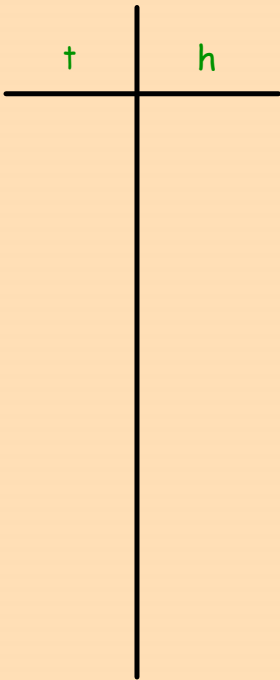| x	$y = |x| - 6$	y

Domain:

Range:

You are hiking uphill from Everest base camp that is at 5364 meters above sea level. You climb an average of 250 vertical meters each hour. The function h = 5364 +250t relates the time t to your height above sea level h.

Does the function rule model continuous or discrete data?

Make a table and graph the function.
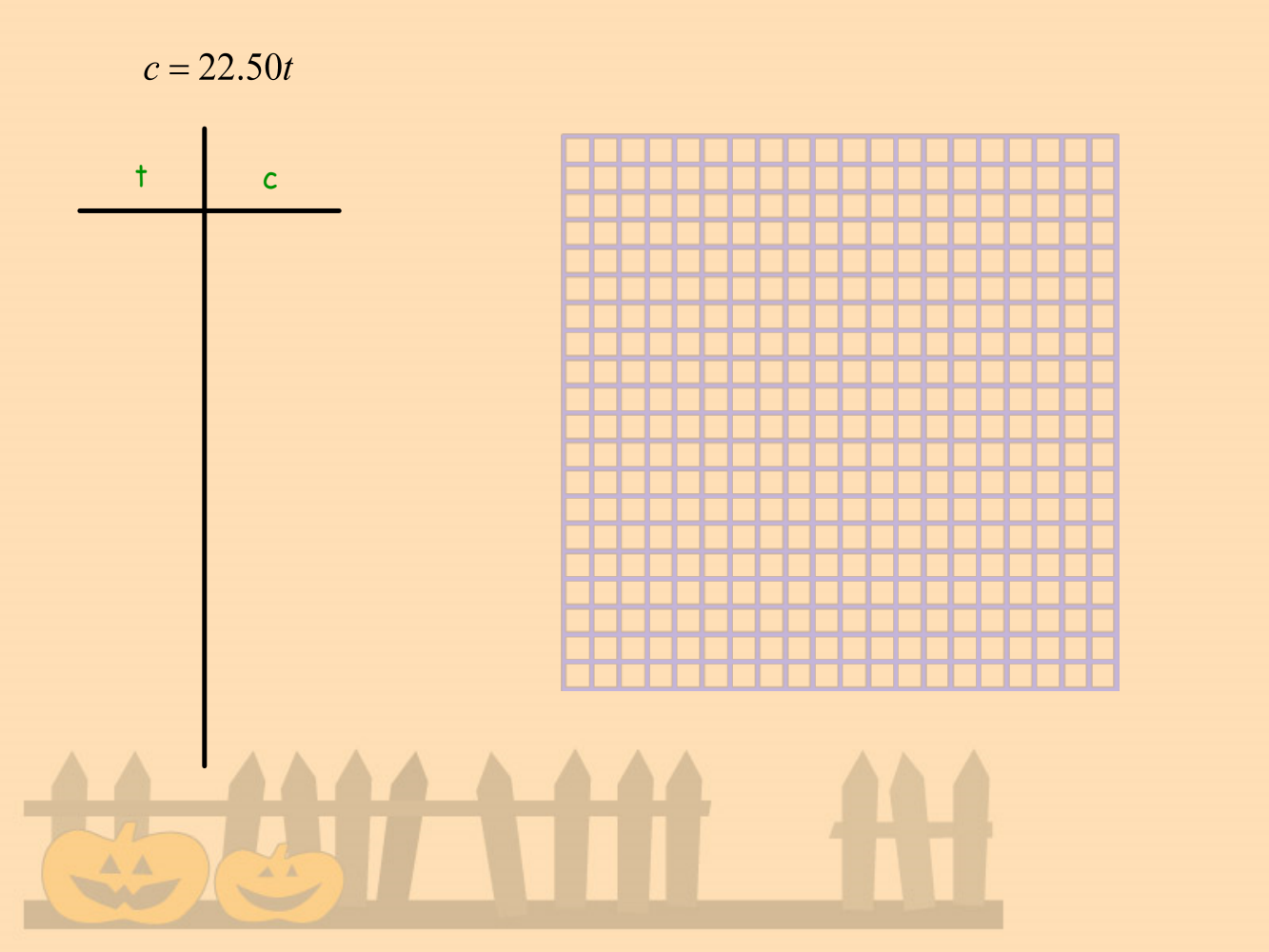
$$h = 5364 + 250t$$

t	h

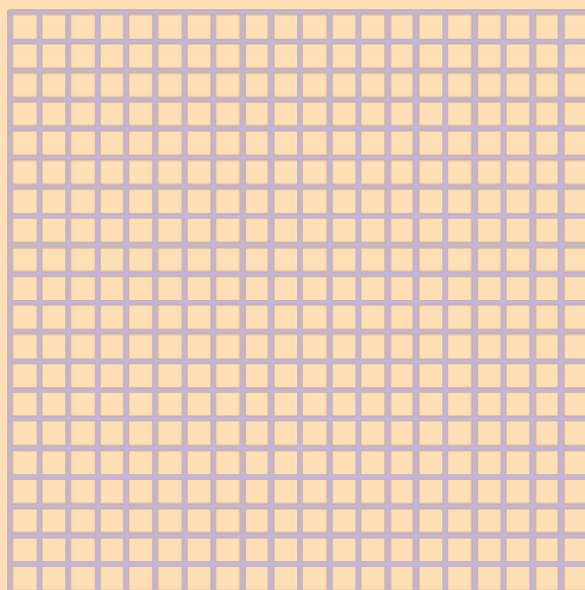The function c = 22.50t represents the cost of t tickets to a baseball game.

Does the function rule model continuous or discrete data?

Make a table and graph the function.

$$c = 22.50t$$

t	c

Graph the function $y = x^2$

Homework:

p. 266 1 - 11 odd
WB Pg 45-47

Attachments

Everest Base Camp.jpg

Colorado Rockies Baseball.jpg