

Set 2

Write a function rule for each table.

1.	X	У
	0	3
	2	5
	4	7
	6	9

2.	x	У
	0	0
	1	3
	3	9
	5	15

3.	x	у
	5	0
	10	5
	15	10
	20	15

8.

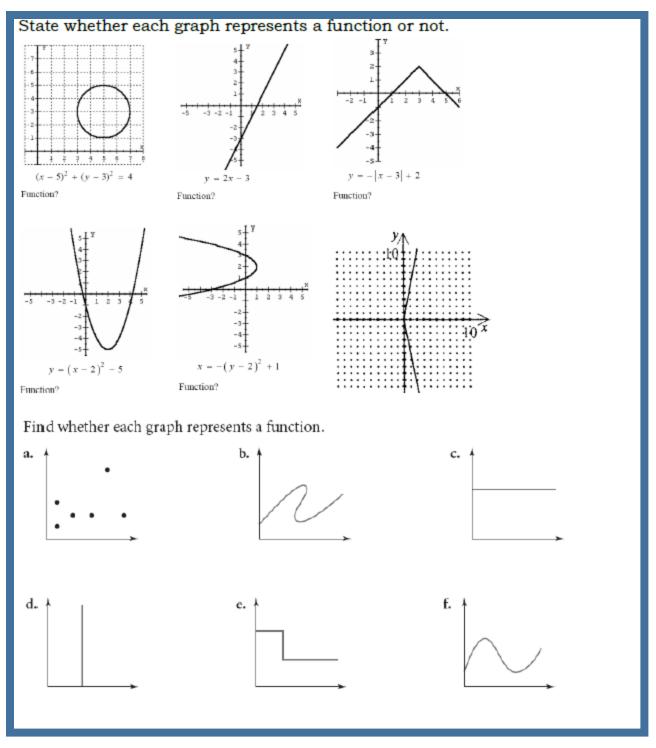
Write a function rule for each table.

6.	X	У
	-4	-2
	-2	-1
	6	3
	8	4

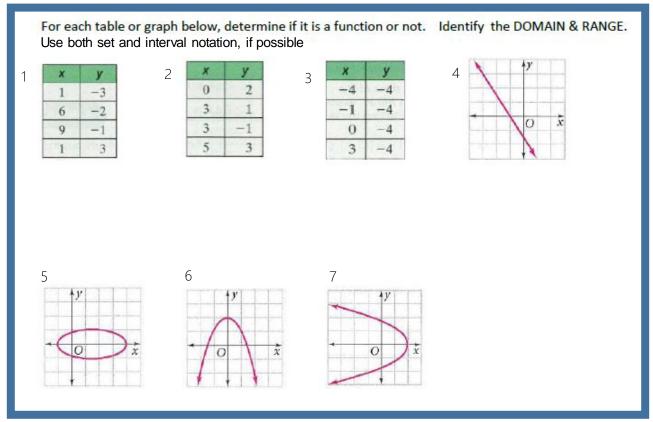
7.	x	у
	-3	9
	0	0
	1	1
	5	25

x	У
0	20
2	18
4	16
8	12

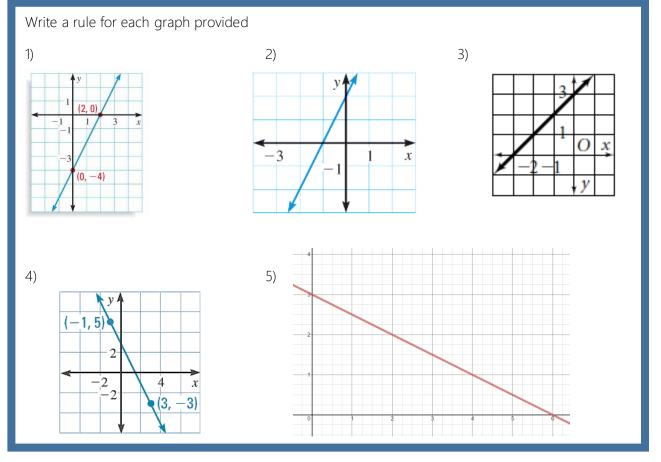
Set 3:



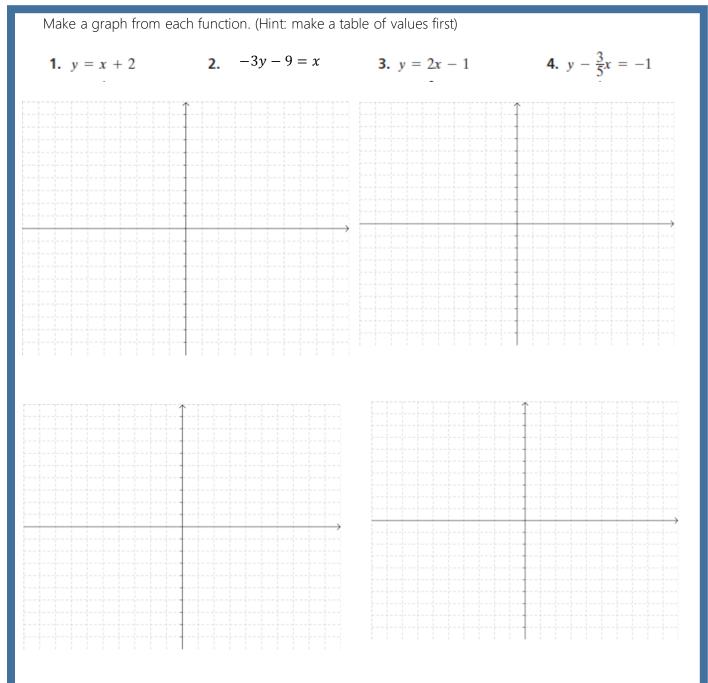
Set 4:



Set 5:



Set 6:



Answers for Set 1:

1.
$$d = \{-3, -1, 0, 2, 4\}; r = \{-7, -3, -1, 3, 7\}$$

2. $d = \{-5, -4, 0, 1, 2\}; r = \{-4, -2, 2, 3, 4\}$ **3.** yes
4. no **5.** yes **6.** no **7.** yes **8.** no

Answers for Set 2:

1.
$$y = x + 3$$
 6. $y = \frac{1}{2}x$

 2. $y = 3x$
 7. $y = x^2$

 3. $y = x - 5$
 8. $y = 20 - x$

Answers to Set 3:

The relation is not a function The relation is a function The relation is not a function The relation is not a function From top left to bottom right:

The relation is a function The relation is not a function The relation is not a function The relation is not a function

The relation is a function The relation is not a function The relation is a function The relation is a function

Answers to Set 4:

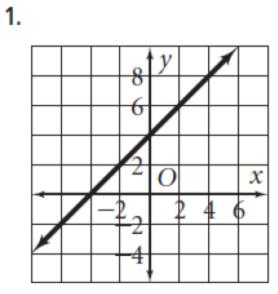
- 1. The relation is not a function
 - a. Domain: **{1,6,9**}
 - b. Range: {−3,−2,−1,3}
- 2. The relation is not a function
 - a. Domain: **{0,3,5}**
 - b. Range: {2,1,-1,3}
- 3. The relation is a function
 - a. Domain: {-4, -1,0 3}
 - b. Range: {-4}
- 4. The relation is a function
 - a. Domain:
 - i. Set Notation: $\{x \mid \mathbb{R}\}$ or $\{-\infty < x < \infty\}$
 - ii. Interval Notation: $(-\infty, \infty)$
 - b. Range:
 - i. Set Notation: $\{y | \mathbb{R}\}$ or $\{-\infty < y < \infty\}$
 - ii. Interval Notation: $(-\infty, \infty)$
- 5. The relation is not a function
 - a. Domain:
 - i. Set Notation: $\{x | -1 \le x \le 4\}$
 - ii. Interval Notation: [-1,4]
 - b. Range:
 - i. Set Notation: $\{y|-1 \le y \le 1\}$
 - ii. Interval Notation: [-1,1]
- 6. The relation is a function
 - a. Domain:
 - i. Set Notation: $\{x \mid \mathbb{R}\}$ or $\{-\infty < x < \infty\}$
 - ii. Interval Notation: $(-\infty, \infty)$
 - b. Range:
 - i. Set Notation: $\{y | -\infty < y \le 2\}$ or $\{y | y \le 2\}$
 - ii. Interval Notation: $(-\infty, 2]$
- 7. The relation is not a function
 - a. Domain:
 - i. Set Notation: $\{x | -\infty < x \le 2\}$ or $\{x | x \le 2\}$
 - ii. Interval Notation: (-∞,2]
 - b. Range:
 - i. Set Notation: $\{x \mid \mathbb{R}\}$ or $\{-\infty < x < \infty\}$
 - ii. Interval Notation: $(-\infty, \infty)$

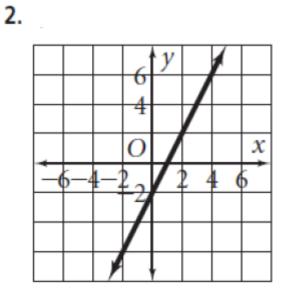
Answers to Set 5:

1.
$$y = 2x - 4$$

2. $y = 2x + 2$
3. $y = x + 3$
4. $y = -2x + 3$
5. $y = -\frac{1}{2}x + 3$

Answers to Set 6:





3.



