Name _____ Date _____

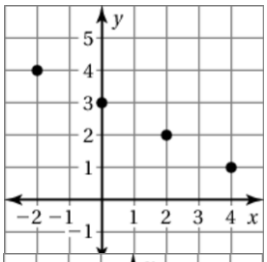
6.3 Puzzle Time

What Would You Get If You Crossed A Vampire With A Snowman?

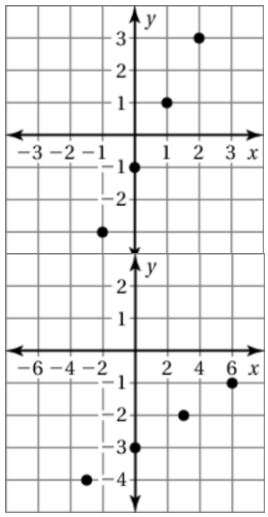
Write the letter of each answer in the box containing the exercise number.

Use the graph or table to write a linear function that relates y to x

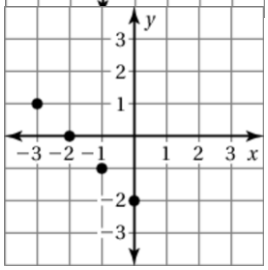
1.



2.



3.



4.

5.

x	-2	0	2	4
y	4	5	6	7

6.

x	-4	-2	0	2
y	0	-2	-4	-6

7.

x	-2	0	2	4
y	-8	-5	-2	1

8.

x	0	2	4	6
y	2	0	-2	-4

Answers

S. $y = 2x - 1$

R. $y = \frac{1}{2}x + 5$

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

O. $y = \frac{1}{3}x - 3$

T. $y = \frac{3}{2}x - 5$

I. $y = -x - 2$

B. $y = 6x$

F. $y = -x + 2$

T. $y = -x - 4$

9. The table shows how many cups of pancake mix x are needed to make y pancakes. Find the linear function that relates the number of pancakes to the number of cups of pancake mix.

Cups of Mix, x	1	2	3	4
Pancakes, y	6	12	18	24

8	**5**	**4**	**2**	**7**	**9**	**3**	**6**	**1**

Name _____ Date _____

6.4 Puzzle Time

What Belongs To You, But Is Used More By Other People?

Write the letter of each answer in the box containing the exercise number.

Choose the equation that represents a *nonlinear* function.

1. N. $y + x = 2x - 1$ O. $xy = 2x - 1$ P. $2y + 1 = 2x$

2. P. $3y = 4x + 3$ Q. $x - y = 4$ R. $y = 3x^2 + 4$

3. A. $5y = \frac{7}{x}$ B. $7y = 5x$ C. $5y + x = 7x$

4. C. $y = 6\pi$ D. $y = 6\pi x$ E. $y = 6\pi x^2$

Choose the missing *y*-value that makes the points represent a linear function.

5. $(1,15), (2,19), (3,?)$

U. 23 V. 24 W. 25

6. $(-3,9), (-2,?), (-1,7)$

K. 12 L. 6 M. 8

7. $(4,?), (7,-3), (10,-3)$

X. -2 Y. -3 Z. -4

8. $(25,360), (40,320), (55,?)$

L. 300 M. 380 N. 280

7	1	5	2		8	3	6	4