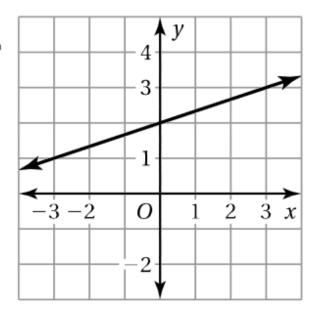


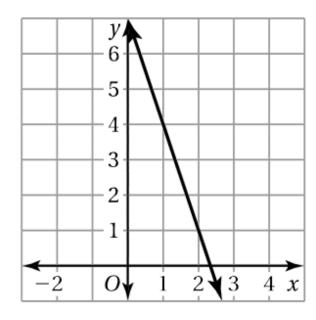
Do Now

Write an equation of the line in slope-intercept form.

1.



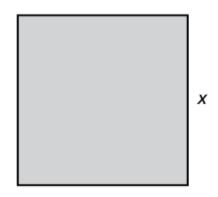
2.



Do Now

The table shows a familiar pattern from geometry.

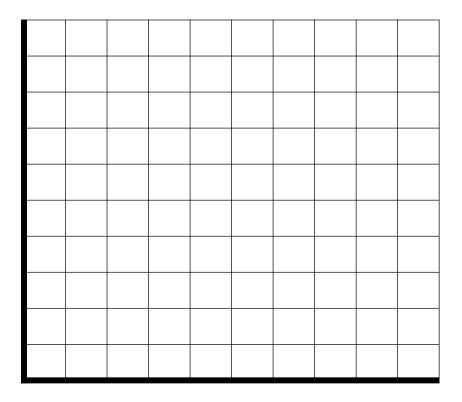
X	1	2	3	4	5
У	4	8	12	16	20



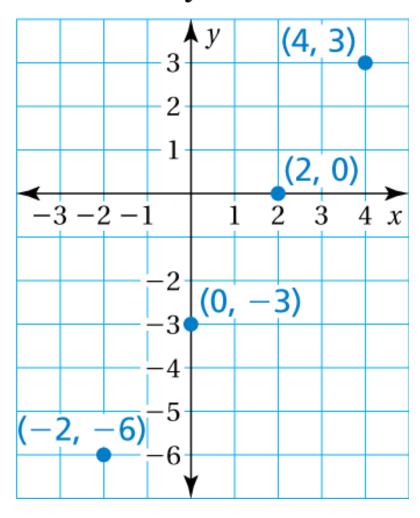
- **1.** Write a function that relates y to x.
- **2.** What do the variables *x* and *y* represent?

3. Graph the function.

3. Graph the function.



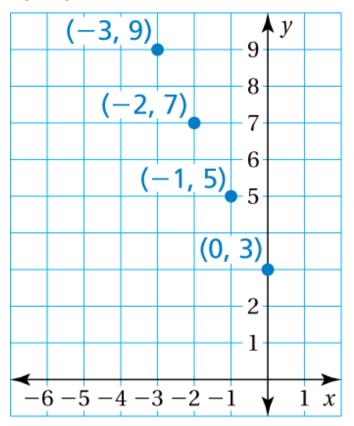
Use the graph to write a linear function that relates y to x.



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

X	-3	-2	-1	0
у	9	7	5	3

Using a graph:

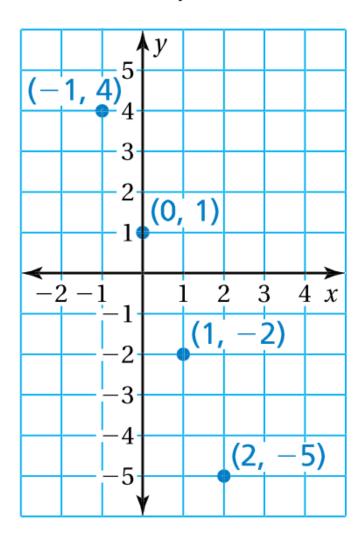


Use the table to write a linear function that relates y to x.

x	-3	-2	-1	0
У	9	7	5	3

Using the slope-intercept method:

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



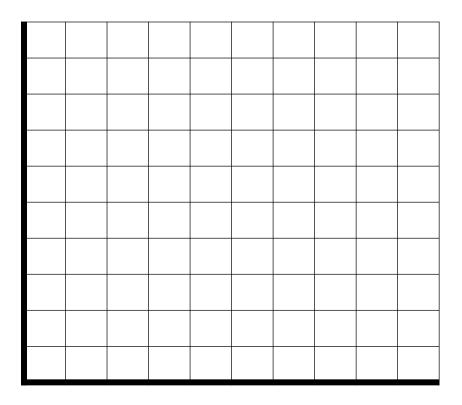
Use the table to write a linear function that relates y to x.

Х	-2	0	2	4
У	-2	-1	0	1

The table shows the number y of calories you burn in x hours of jogging.

Hours Jogging, <i>x</i>	Calories Burned, <i>y</i>		
2	800		
4	1600		
6	2400		
8	3200		

- a. Write a linear function that relates y to x. Interpret the slope and the y-intercept.
- **b.** Graph the linear function.
- c. How many calories do you burn in 150 minutes?



Your earnings y (in dollars) for working x hours are represented by the function y = 6x + 12. The table shows the earnings of your friend.

Time (hours)	1	2	3	4
Earnings (\$)	9	18	27	36

- a. Who has a higher hourly wage?
- b. Write a function that relates your friend's earnings to the number of hours worked. Graph both functions. Interpret the graphs.

