

Predict the Equation of a Line and Graph Lines

1. Use each of the following data tables to predict the equation of the lines.

a.

x	y
9	11
-5	-3
0	2
2	4
4	6
-3	-1

Equation:

b.

x	y
4	8
3	6
0	0
-2	-4
-5	-10
6	12

Equation:

c.

x	y
1	0
0	-2
3	4
-4	-10
-1	-4
10	18

Equation:

d.

x	y
9	9
12	12
-8	-8
-11	-11
5	5
3	3

Equation:

2. Graph each of the following equations on the coordinate plane shown on the right.

a. $y = x + 4$

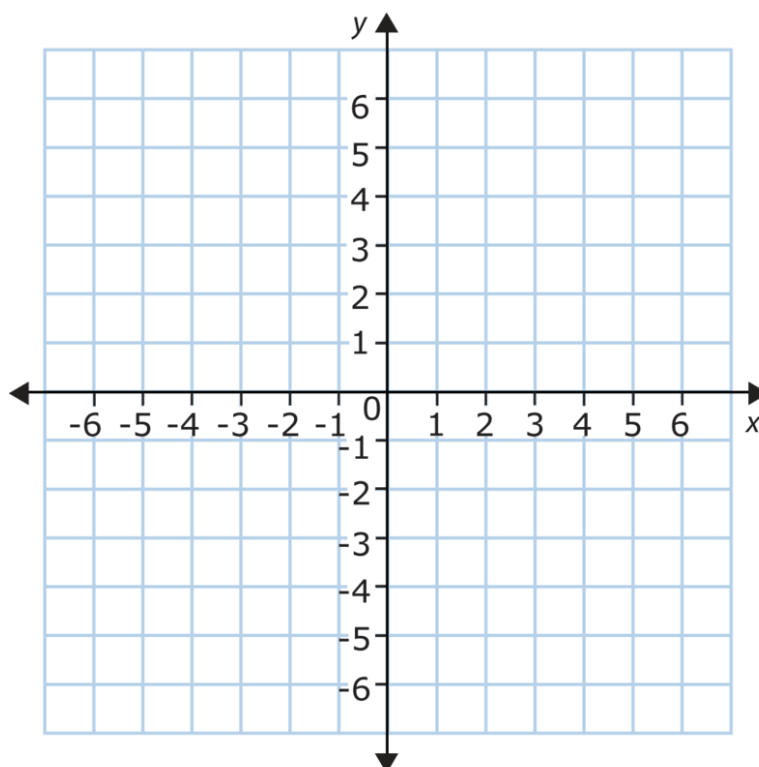
b. $y = 4x - 3$

c. $y = 2x + 3$

d. $y = 2x + 1$

e. $y = 6x$

f. $y = -4$



3. Which of the above lines (question 2) is parallel to the x -axis?

Answer:

Predict the Equation of a Line and Graph Lines

Answer Key

1. Use each of the following data tables to predict the equation of the lines.

a.

x	y
9	11
-5	-3
0	2
2	4
4	6
-3	-1

Equation:

$$y = x + 2$$

b.

x	y
4	8
3	6
0	0
-2	-4
-5	-10
6	12

Equation:

$$y = 2x$$

c.

x	y
1	0
0	-2
3	4
-4	-10
-1	-4
10	18

Equation:

$$y = 2x - 2$$

d.

x	y
9	9
12	12
-8	-8
-11	-11
5	5
3	3

Equation:

$$y = x$$

2. Graph each of the following equations on the coordinate plane shown on the right.

a. $y = x + 4$

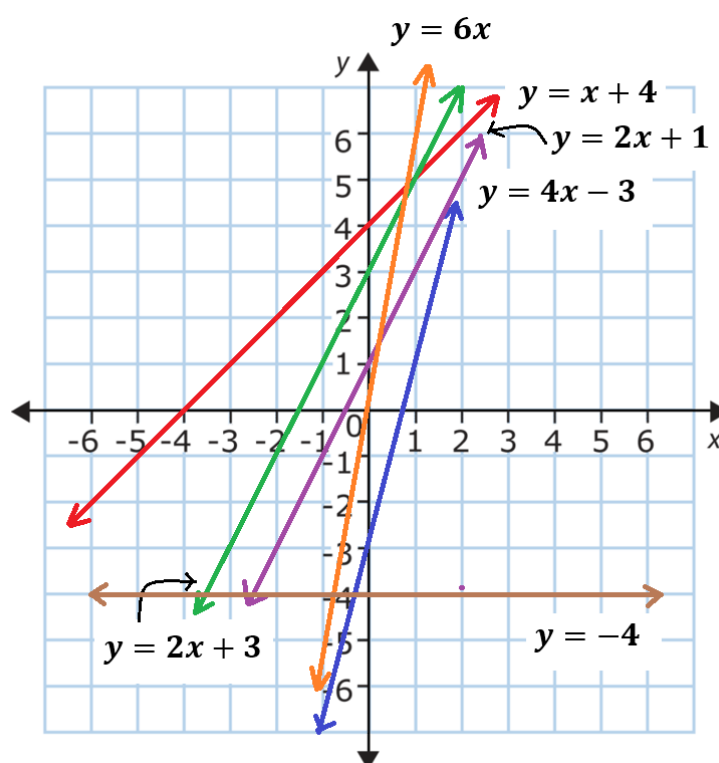
b. $y = 4x - 3$

c. $y = 2x + 3$

d. $y = 2x + 1$

e. $y = 6x$

f. $y = -4$



3. Which of the above lines (question 2) is parallel to the x-axis?

Answer: $y = -4$