

# Write Equations in Slope-Intercept Form From Tables

You can write the equation of a linear function in slope-intercept form, where  $m$  is the **slope** and  $b$  is the  **$y$ -intercept**:

$$y = mx + b$$

Each table represents a linear function. Find the **slope** and the  **$y$ -intercept**. Write the slope as a proper or improper fraction in simplest form or an integer. Then write the equation in slope-intercept form.



1.

x	y
0	6
1	9
2	12
3	15

slope: \_\_\_\_\_

 $y$ -intercept: \_\_\_\_\_

equation: \_\_\_\_\_

2.

x	y
0	-5
1	-6
2	-7
3	-8

slope: \_\_\_\_\_

 $y$ -intercept: \_\_\_\_\_

equation: \_\_\_\_\_

3.

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

slope: \_\_\_\_\_

 $y$ -intercept: \_\_\_\_\_

equation: \_\_\_\_\_

4.

x	y
0	9
2	19
4	29
6	39

slope: \_\_\_\_\_

 $y$ -intercept: \_\_\_\_\_

equation: \_\_\_\_\_

5.

x	y
-6	-8
-3	-3
0	2
3	7

slope: \_\_\_\_\_

 $y$ -intercept: \_\_\_\_\_

equation: \_\_\_\_\_

6.

x	y
-6	15
-4	14
-2	13
0	12

slope: \_\_\_\_\_

 $y$ -intercept: \_\_\_\_\_

equation: \_\_\_\_\_

## Write Equations in Slope-Intercept Form From Tables

Keep going! Each table represents a linear function. Find the **slope** and the **y-intercept**. Write the slope as a proper or improper fraction in simplest form or an integer. Then write the equation in slope-intercept form.



7.

x	y
1	9
2	16
3	23
4	30

slope: \_\_\_\_\_

y-intercept: \_\_\_\_\_

equation: \_\_\_\_\_

8.

x	y
16	-1
12	-2
8	-3
4	-4

slope: \_\_\_\_\_

y-intercept: \_\_\_\_\_

equation: \_\_\_\_\_

9.

x	y
5	-8
10	-12
15	-16
20	-20

slope: \_\_\_\_\_

y-intercept: \_\_\_\_\_

equation: \_\_\_\_\_

10.

x	y
-6	17
-2	11
2	5
6	-1

slope: \_\_\_\_\_

y-intercept: \_\_\_\_\_

equation: \_\_\_\_\_

11.

x	y
-10	-3
5	3
20	9
35	15

slope: \_\_\_\_\_

y-intercept: \_\_\_\_\_

equation: \_\_\_\_\_

12.

x	y
-13	-7
-9	-15
-5	-23
-1	-31

slope: \_\_\_\_\_

y-intercept: \_\_\_\_\_

equation: \_\_\_\_\_