

# Writing Equations in Slope-Intercept Form: Review

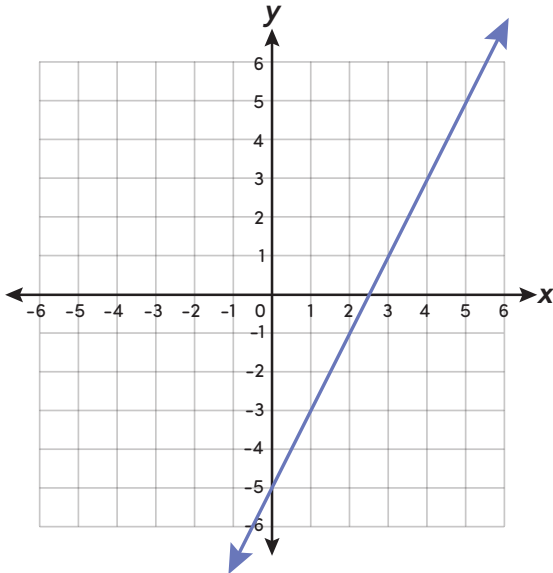
You can write the equation of a linear function in slope-intercept form, where  $m$  is the **slope** and  $b$  is the **y-intercept**:

$$y = mx + b$$



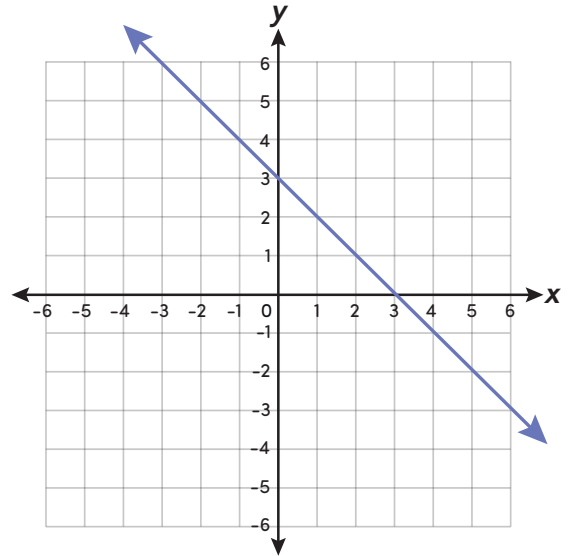
Find the **slope** and the **y-intercept** of each linear function below. Write the slope as a proper or improper fraction in simplest form or an integer. Then write the equation in slope-intercept form.

1.



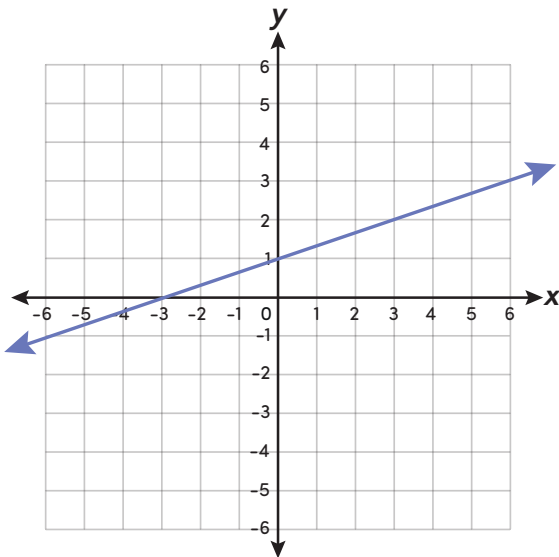
slope: 2 y-intercept: -5  
equation:  $y = 2x - 5$

2.



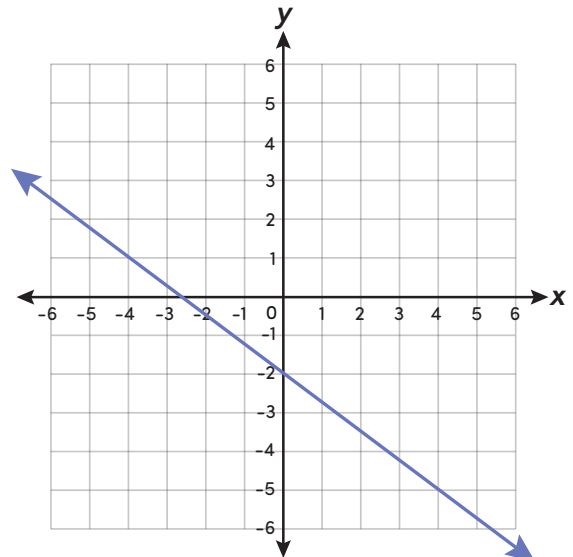
slope: -1 y-intercept: 3  
equation:  $y = -x + 3$

3.



slope:  $\frac{1}{3}$  y-intercept: 1  
equation:  $y = \frac{1}{3}x + 1$

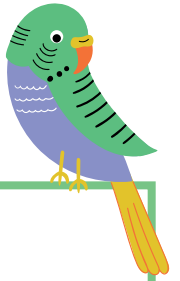
4.



slope:  $-\frac{3}{4}$  y-intercept: -2  
equation:  $y = -\frac{3}{4}x - 2$

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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.



5.

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

slope: 4y-intercept: -5equation:  $y = 4x - 5$ 

6.

x	y
-3	2
0	0
3	-2
6	-4

slope:  $-\frac{2}{3}$ y-intercept: 0equation:  $y = -\frac{2}{3}x$ 

7.

x	y
-2	2
0	-2
2	-6
4	-10

slope: -2y-intercept: -2equation:  $y = -2x - 2$ 

8.

x	y
4	7
8	8
12	9
16	10

slope:  $\frac{1}{4}$ y-intercept: 6equation:  $y = \frac{1}{4}x + 6$ 

9.

x	y
3	13
1	7
-1	1
-3	-5

slope: 3y-intercept: 4equation:  $y = 3x + 4$ 

10.

x	y
-2	-6
2	4
6	14
10	24

slope:  $\frac{5}{2}$ y-intercept: -1equation:  $y = \frac{5}{2}x - 1$