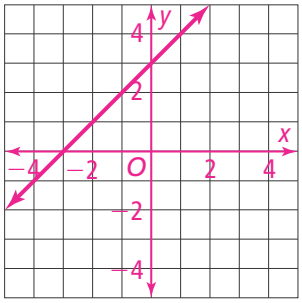
2-1 Additional Practice

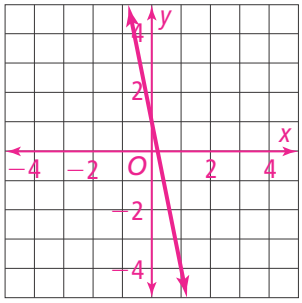
Slope-Intercept Form

Graph the line that represents each linear equation.

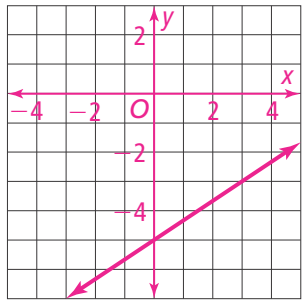
1. $y = x + 3$



2. $y = -5x + 1$

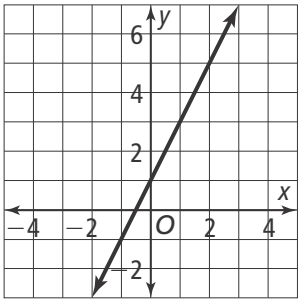


3. $y = \frac{2}{3}x - 5$



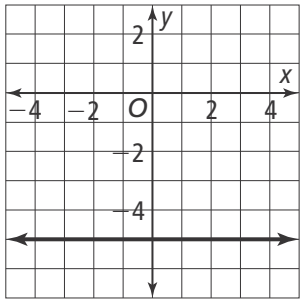
What slope-intercept form equation represents the line?

4.



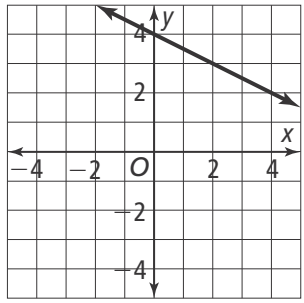
$y = 2x + 1$

5.



$y = -5$

6.



$y = -\frac{1}{2}x + 4$

Write the equation in slope-intercept form of the line that passes through the given points.

7. (−1, 3) and (−3, 1)

$y = x + 4$

8. (−4, 8) and (4, 6)

$y = -\frac{1}{4}x + 7$

9. (9, 2) and (−3, −2)

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

10. Zachary purchased a computer for $1,800 on a payment plan. Three months after he purchased the computer, his balance was $1,350. Five months after he purchased the computer, his balance was $1,050. What is an equation that models the balance B after m months?

$B = -150m + 1800$

11. What does the slope signify in this equation and why?

In the equation $B = -150m + 1800$, the slope signifies the monthly payment amount because the balance decreases by $150 each month.