3-3 Practice

Form K

Slope-Intercept Form

Find the slope and *y*-intercept of the graph of each equation.

1. $y = -2x + 7$

2. $y = 6x + 11$

3. $y = -7x - 8$

4. $y = -2.5x + 3.2$

5. $y = -9$

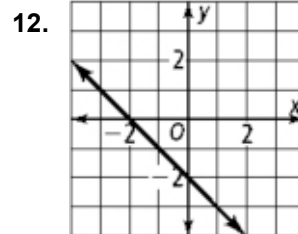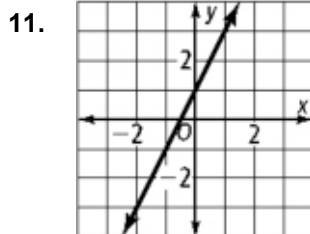**6.** $y = \frac{1}{4}x - \frac{2}{7}$

Write an equation of a line with the given slope *m* and *y*-intercept *b*.

7. $m = -5, b = -6$

8. $m = 1, b = -4$

9. $m = 0.4, b = -9$

10. $m = 0, b = 3$

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

11.

12.

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

13. $(-1, 2)$ and $(0, 0)$

14. $(-2, 9)$ and $(1, 6)$

15. $(12, 10)$ and $(16, 8)$

16. $(-4, -1)$ and $(-8, 7)$

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3-3 **Practice** (continued)   *Form K*
Slope-Intercept Form

Graph each equation.

17. $y = x - 2$

18. $y = 3x + 1$

19. $y = -x - 1$

20. $y = -3x - 2$

21. $y = \dfrac{1}{2}x + 2$

22. $y = -\dfrac{4}{5}x - 5$

23. A car is traveling at 45 mi/h. Write an equation that models the total distance d traveled after h hours. What is the graph of the equation?