5-6 Exercises

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GUIDED PRACTICE

SEE EXAMPLE 1 p. 334

Graph each line given the slope and *y*-intercept.

1. slope $= \frac{1}{3}$, *y*-intercept $= -3$
2. slope $= 0.5$, *y*-intercept $= 3.5$
3. slope $= 5$, *y*-intercept $= -1$
4. slope $= -2$, *y*-intercept $= 2$

SEE EXAMPLE 2 p. 335

Write the equation that describes each line in slope-intercept form.

5. slope $= 8$, *y*-intercept $= 2$
6. slope $= \frac{1}{2}$, *y*-intercept $= -6$
7. slope $= 0$, *y*-intercept $= -3$
8. slope $= 5$, the point $(2, 7)$ is on the line

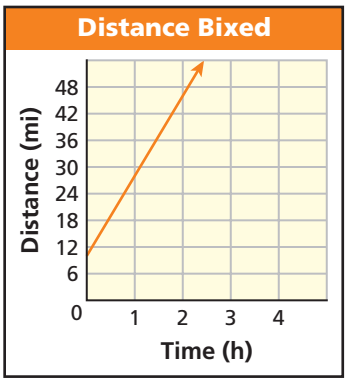
SEE EXAMPLE 3 p. 336

Write each equation in slope-intercept form. Then graph the line described by the equation.

9. $y = \frac{2}{5}x - 6$
10. $3x - y = 1$
11. $2x + y = 4$

SEE EXAMPLE 4 p. 337

12. Helen is in a bicycle race. She has already biked 10 miles and is now biking at a rate of 18 miles per hour. Her distance as a function of time is shown in the graph.
    a. Write an equation that represents the distance Helen has biked as a function of time.
    b. Identify the slope and *y*-intercept and describe their meanings.
    c. How far will Helen have biked after 2 hours?



PRACTICE AND PROBLEM SOLVING

Independent Practice

For Exercises	See Example
13–16	1
17–20	2
21–29	3
30	4

Extra Practice

Skills Practice p. S13
Application Practice p. S32

Graph each line given the slope and *y*-intercept.

13. slope $= \frac{1}{4}$, *y*-intercept $= 7$
14. slope $= -6$, *y*-intercept $= -3$
15. slope $= 1$, *y*-intercept $= -4$
16. slope $= -\frac{4}{5}$, *y*-intercept $= 6$

Write the equation that describes each line in slope-intercept form.

17. slope $= 5$, *y*-intercept $= -9$
18. slope $= -\frac{2}{3}$, *y*-intercept $= 2$
19. slope $= -\frac{1}{2}$, $(6, 4)$ is on the line
20. slope $= 0$, $(6, -8)$ is on the line

Write each equation in slope-intercept form. Then graph the line described by the equation.

21. $y = -\frac{1}{2}x + 3$
22. $y = \frac{1}{3}x - 5$
23. $y = x + 6$
24. $6x + 3y = 12$
25. $y = \frac{7}{2}$
26. $4x + y = 9$
27. $-\frac{1}{2}x + y = 4$
28. $\frac{2}{3}x + y = 2$
29. $2x + y = 8$