Name

Class

Date



5-3

**Practice**

# Slope-Intercept Form

*Form G*

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

**1.** *y =* 3*x* − 5 **2.** *y =* −5*x +* 13 **3.** *y=* −*x* − 1

**4.** *y =* −11*x +* 6 **5.** *y=* −5 **6. **

**7.** *y =* −6.75*x +* 8.54 **8. ** **9.** *y =* 2.25

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

**10.** *m =* −1, *b =* 3 **11.** *m =* 4, *b =* −2 **12.** *m =* −5, *b =* −8

**13.** *m =* 0.25, *b =* 6 **14.** *m =* 0, *b =* −11 **15.** *m =* 1, *b = *

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

16.  17.  18. 

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

**19.** (3, 5) and (0, 4) **20.** (2, 6) and (−4, −2) **21.** (−1, 3) and (−3, 1)

**22.** (−7, 5) and (3, 0) **23.** (10, 2) and (−2, −2) **24.** (0, −1) and (5, 6)

**25.** (3, 2) and (−1, 6) **26.** (−4, −3) and (3, 4) **27.** (2, 8) and (−3, 6)

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**Practice** (continued)

# Slope-Intercept Form

*Form G*

**Graph each equation.**

**28.** *y* = *x* + 3 **29.** *y =* 4*x* − 1 **30.** *y* = −*x*+6

**31.** *y =* 3*x* − 2 **32.** *y =* −5*x +* 1 **33.** *y =* −7*x* − 4

1. Hudson is already 40 miles away from home on his drive back to college. He is driving 65 mi/h. Write an equation that models the total distance *d* travelled after *h* hours. What is the graph of the equation?
2. When Phil started his new job, he owed the company $65 for his uniforms. He is earning $13 per hour. The cost of his uniforms is withheld from his earnings. Write an equation that models the total money he has *m* after *h* hours of work. What is the graph of the equation?

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

**36.** *y* + 4 = −6*x* **37. ** **38.** 3*y* − 12*x* + 6 = 0

**39. ** **40. ** **41.** 2*y* + 6*a* − 4*x* = 0

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