2.1–2.4 Quiz

Check It Out
Progress Check
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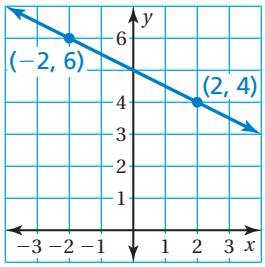
Graph the linear equation using a table. *(Section 2.1)*

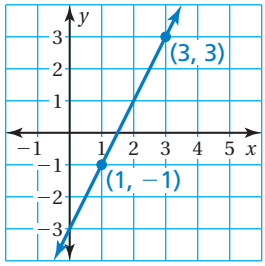
1. $y = -x + 8$ **2.** $y = \frac{x}{3} - 4$ **3.** $x = -1$ **4.** $y = 3.5$

Find the slope of the line. *(Section 2.2)*

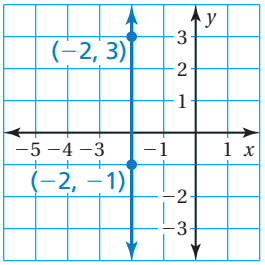
5.



6.



7.



8. What is the slope of a line that is parallel to the line in Exercise 5? What is the slope of a line that is perpendicular to the line in Exercise 5? *(Section 2.2)*

9. Are the lines $y = -1$ and $x = 1$ parallel? Are they perpendicular? Justify your answer. *(Section 2.2)*

Find the slope and *y*-intercept of the graph of the linear equation. *(Section 2.3)*

10. $y = \frac{1}{4}x - 8$ **11.** $y = -x + 3$

Find the *x*- and *y*-intercepts of the graph of the equation. *(Section 2.4)*

12. $3x - 2y = 12$ **13.** $x + 5y = 15$

14. BANKING A bank charges \$3 each time you use an out-of-network ATM. At the beginning of the month, you have \$1500 in your bank account. You withdraw \$60 from your bank account each time you use an out-of-network ATM. Write and graph a linear equation that represents the balance in your account after you use an out-of-network ATM x times. *(Section 2.1)*

15. STATE FAIR Write a linear equation that models the cost y of one person going on x rides at the fair. Graph the equation. *(Section 2.3)*

16. PAINTING You used \$90 worth of paint for a school float. *(Section 2.4)*

a. Graph the equation $18x + 15y = 90$, where x is the number of gallons of blue paint and y is the number of gallons of white paint.

b. Interpret the intercepts.