

## **QUIZ** for Lessons 4.4–4.5

Find the slope of the line that passes through the points. (p. 235) 1. (3, -11) and (0, 4)**2.** (2, 1) and (8, 4) **3.** (-4, -1) and (-1, -1)Identify the slope and y-intercept of the line with the given equation. (p. 244) 4. y = -x + 95. 2x + 9y = -186. -x + 6y = 21Graph the equation. (p. 244) 8.  $y = \frac{5}{3}x - 8$ 7. y = -2x + 119. -3x - 4y = -1210. **RED OAKS** Red oak trees grow at a rate of about 2 feet per year. You buy and plant two red oak trees, one that is 6 feet tall and one that is 8 feet tall. The height *h* (in feet) of the shorter tree can be modeled by h = 2t + 6where *t* is the time (in years) since you planted the tree. The height of the taller tree can be modeled by h = 2t + 8. (p. 244)

- a. Graph both equations in the same coordinate plane.
- **b.** Use the graphs to find the difference of the heights of the trees 5 years after you plant them. What is the difference after 10 years? What do you notice about the difference of the heights of the two trees?

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