6-8A Lesson Master

**SKILLS** Objective C

In 1–6, rewrite the equation in standard form with integer coefficients.

1. \( y = -3x - 7 \)

2. \( y = \frac{2}{3}x + 14 \)

3. \( y = 8 - \frac{1}{3}x \)

4. \( 2y - 2.5 = 9x \)

5. \( y - x - 3 = 0 \)

6. \( 30x = \frac{1}{9}y + 70 \)

**USES** Objective F

7. In the game of paper football, you get 6 points for a touchdown and 1 point for a field goal. Marcos scored \( x \) touchdowns and \( y \) field goals, for a total of 20 points.

   a. Write an equation in standard form that describes the relationship between \( x \) and \( y \).

   b. Give three solutions to your equation from Part a.

**REPRESENTATIONS** Objective H

In 8 and 9, an equation for a line is given. a. Find the \( x \)- and \( y \)-intercepts of the graph of the line. b. Graph the line.

8. \( 3x + 8y = -24 \)

   a. 

   b. 

9. \( 5x - 2y = 10 \)

   a. 

   b.