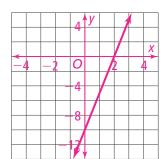
PearsonRealize.com

2-3 Additional Practice

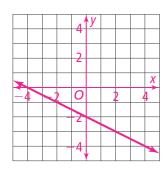
Standard Form

Graph the line that represents each linear equation.

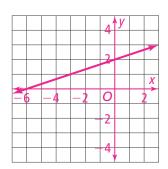
1.
$$-5x + y = -10$$



2.
$$-3x - 6y = 12$$

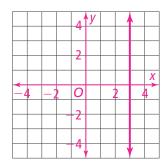


3.
$$4x - 12y = -24$$

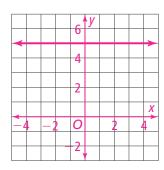


Graph the line that represents each linear equation.

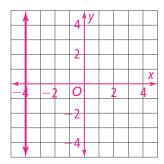
4.
$$5x = 15$$



5.
$$-4y = -20$$



6.
$$6x = -24$$



What points represent the x- and y-intercepts of each equation?

7.
$$4x - 5y = 80$$

(20, 0) and (0,
$$-16$$
) (16, 0) and (0, 14) (18, 0) and (0, -12)

8.
$$7x + 8y = 112$$

9. $-8x + 12y = -144$
0. -16) (16, 0) and (0, 14) (18, 0) and (0, -12)

10. Find expressions for the slope and x- and y-intercepts for Ax + By = C, where A, B, and C are nonzero integers.

Slope =
$$-\frac{A}{B}$$
; x-intercept = $\frac{C}{A}$; y-intercept = $\frac{C}{B}$

- **11.** A high school football team scores a total of 42 points by scoring touchdowns and field goals. Suppose each field goal is worth 3 points and each touchdown is worth 7 points.
 - a. Let x represent the number of field goals and y represent the number of touchdowns. Write an equation that models the total points scored in the game. Sample Answer: 3x + 7y = 42
 - **b.** Identify and interpret the x- and y-intercepts. Sample Answer: The x-intercept is 14, which means that the team scored 14 field goals. The y-intercept is 6, which means that the team scored 6 touchdowns.