Chapter & Workshoet

Determine the slope of the line passing through each pair of points named.

1.
$$(2, 9), (-3, 5)$$

2.
$$(-4, -7), (11, -7)$$

Determine the value of r so that the line through each pair of points has the given slope.

3.
$$(24, 5), (r, 2), m = \frac{3}{16}$$

4.
$$(5, r)$$
, $(4, 15)$, $m = 3$

State the slope and y-intercept of the graph of the equation.

5.
$$y = 7x$$

6.
$$3x - 5y = 10$$

Find the x- and y-intercepts for each equation.

7.
$$y = \frac{2}{3}x - 2$$

8.
$$5x - 9y = 5$$

Write each of the following in standard form I slope-intercept form.

9.
$$2x - 5 = y$$

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10.
$$7y + 8x = 12$$

Write an equation in standard form of the line satisfying the given conditions.

11. passes through
$$(2, 7)$$
 and $(-5, 4)$

12. passes through
$$(1, -2)$$
 and $(3, 6)$

13. has x-intercept 4 and passes through
$$(-2, 5)$$

14. slope =
$$-\frac{2}{7}$$
 and passes through (-3, 7)

Write an equation in slope-intercept form of the line satisfying the given conditions.

15. slope = -5 and y-intercept =
$$\frac{2}{3}$$

17. slope =
$$\frac{4}{5}$$
 and passes through (2, 5)

Graph each equation.

19.
$$y = 4x - 9$$

20.
$$3x + 2y = 16$$

Write an equation of the line that is parallel to the graph of each equation below and that passes through the indicated point. Use slope-intercept form.

21.
$$4x + 3y = 6$$
; $(-3, 8)$

22.
$$x = \frac{1}{2}y$$
; (2, 10)

Write an equation of the line that is perpendicular to the graph of each equation below and that passes through the indicated point. Use slope-intercept form.

23.
$$7x - 2y = 9$$
; (2, 1)

24.
$$y = 5x - 3$$
; $(-5, 4)$

35. Write the inverse of the equation in $f^{-1}(x)$ no tation.