4.4-4.7 Quiz



Find the slope and the y-intercept of the graph of the linear equation. (Section 4.4)

1.
$$y = \frac{1}{4}x - 8$$

2.
$$y = -x + 3$$

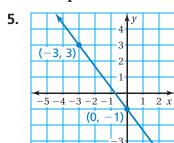
Find the x- and y-intercepts of the graph of the equation. (Section 4.5)

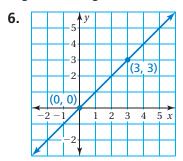
3.
$$3x - 2y = 12$$

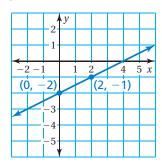
4.
$$x + 5y = 15$$

7.

Write an equation of the line in slope-intercept form. (Section 4.6)







Write in point-slope form an equation of the line that passes through the given point and has the given slope. (Section 4.7)

8.
$$(1,3)$$
; $m=2$

9.
$$(-3, -2)$$
; $m = \frac{1}{3}$

10.
$$(-1, 4)$$
; $m = -1$

11.
$$(8, -5)$$
; $m = -\frac{1}{8}$

Write in slope-intercept form an equation of the line that passes through the given points. (Section 4.7)

12.
$$\left(0, -\frac{2}{3}\right)\left(-3, -\frac{2}{3}\right)$$

- **14. STATE FAIR** The cost y (in dollars) of one person buying admission to a fair and going on x rides is y = x + 12. (Section 4.4)
 - **a.** Graph the equation.
 - **b.** Interpret the *y*-intercept and the slope.
- **15. PAINTING** You used \$90 worth of paint for a school float. (Section 4.5)
 - **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.
- **16. CONSTRUCTION** A construction crew is extending a highway sound barrier that is 13 miles long. The crew builds $\frac{1}{2}$ of a mile per week. Write an equation that represents the length y (in miles) of the barrier after x weeks. (Section 4.6)