



## Vocabulary and Concept Check

- **1. WRITING** Describe how to write an equation of a line using two points on the line.
- 2. WHICH ONE DOESN'T BELONG? Which pair of points does *not* belong with the other three? Explain your reasoning.

(0, 1), (2, 3)

(1, 2), (4, 5)

(2, 3), (5, 6)

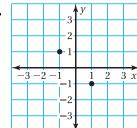
(1, 2), (4, 6)



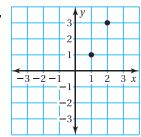
## $\ge$ Practice and Problem Solving

Find the slope and y-intercept of the line that passes through the points. Then write an equation of the line.

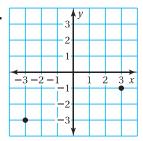
3.



4.



5.



Write an equation of the line that passes through the points.

- - **1 6.** (-1, -1), (1, 5)

    - **9.** (4, 1), (8, 2)
    - **12.** (-5, 2), (5, -2)
- **7.** (2, 4), (3, 6)
- **10.** (-9, 5), (-3, 3)
- **13.** (2, -7), (8, 2)

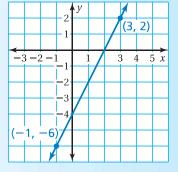
- **8.** (-2, 3), (2, 7)
- **11.** (1, 2), (-2, -1)
- **14.** (1, -2), (3, -8)

- **15. ERROR ANALYSIS** Describe and correct the error in finding the equation of the line that passes through (-1, -6) and (3, 2).
- **16. JET SKI** It costs \$175 to rent a jet ski for 2 hours. It costs \$300 to rent a jet ski for 4 hours. Write an equation that represents the cost v(in dollars) of renting a jet ski for *x* hours.

$$slope = \frac{rise}{run} = \frac{8}{4} = 2$$

The y-intercept is (0,-4).

The equation is y = -4x + 2.





- **17. CIRCUMFERENCE** Consider the circles shown.
  - Plot the points  $(2, 4\pi)$  and  $(3, 6\pi)$ .
  - Write an equation of the line that passes through the two points. b.