

**LESSON**  
**3.2****Practice A**

For use with the lesson "Graph Linear Equations"

**Decide which of the two points lies on the graph of the line.**

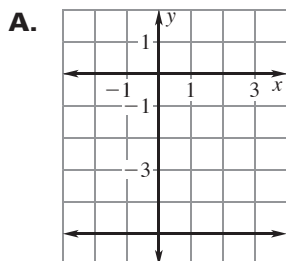
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|---|--|---|
| <b>1.</b> $x + y = 6$<br>a. (2, 2)    b. (5, 1)     | <b>2.</b> $3x + y = 10$<br>a. (3, 1)    b. (1, 3)      | <b>3.</b> $y - x = 4$<br>a. (9, 5)    b. (5, 9)       |
| <b>4.</b> $x - y = 2$<br>a. (6, 4)    b. (5, 7)     | <b>5.</b> $x + 3y = -2$<br>a. (-6, 6)    b. (4, -2)    | <b>6.</b> $-4x + y = -11$<br>a. (3, 1)    b. (1, 3)   |
| <b>7.</b> $2x + 2y = 6$<br>a. (-4, 5)    b. (6, -3) | <b>8.</b> $6x - 2y = -4$<br>a. (-1, -1)    b. (-3, -2) | <b>9.</b> $2x - 5y = -14$<br>a. (2, -2)    b. (-2, 2) |
| <b>10.</b> $x = -3$<br>a. (2, -3)    b. (-3, 2)     | <b>11.</b> $y = 4$<br>a. (6, 4)    b. (4, 6)           | <b>12.</b> $x = 0$<br>a. (0, 7)    b. (-4, 0)         |

**Solve the equation for y.**

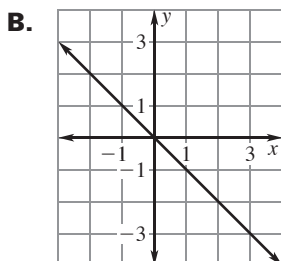
- |                          |                            |                           |
|--------------------------|----------------------------|---------------------------|
| <b>13.</b> $x + y = 7$   | <b>14.</b> $-x + y = 4$    | <b>15.</b> $-x + y = 0$   |
| <b>16.</b> $3x + y = 10$ | <b>17.</b> $-2x + y = 11$  | <b>18.</b> $4x + 2y = 6$  |
| <b>19.</b> $x + 8y = 24$ | <b>20.</b> $-6x + 2y = 10$ | <b>21.</b> $2x + 3y = 12$ |

**Match the equation with its graph.**

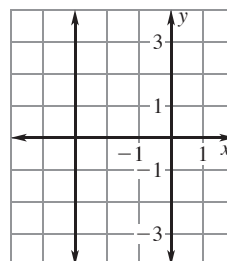
**22.**  $x + y = 0$



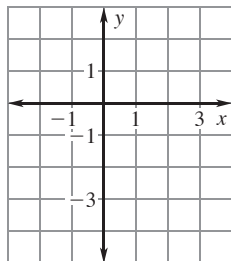
**23.**  $x = -3$



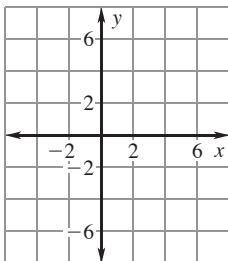
**24.**  $y = -5$

**Graph the equation.**

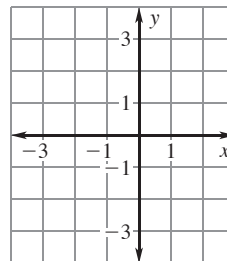
**25.**  $x - 2 = 0$



**26.**  $y + 5 = 0$



**27.**  $2y = -6$



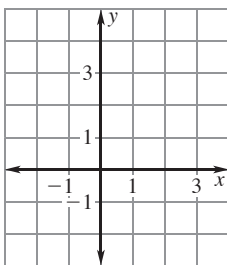
**LESSON 3.2** **Practice A** *continued*  
 For use with the lesson "Graph Linear Equations"

**Match the equation with its range.**

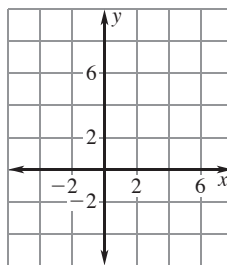
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|-----------------------------------|-----------------------------------|-----------------------------------|
| <b>28.</b> $y = 3x - 4, x \geq 2$ | <b>29.</b> $y = 3x + 4, x \leq 1$ | <b>30.</b> $y = 2x - 4, x \leq 3$ |
| <b>31.</b> $y = 4x - 2, x \leq 3$ | <b>32.</b> $y = 4x + 2, x \geq 2$ | <b>33.</b> $y = 2x + 4, x \leq 1$ |
| <b>A.</b> $y < 10$                | <b>B.</b> $y < 7$                 | <b>C.</b> $y < 6$                 |
| <b>D.</b> $y < 2$                 | <b>E.</b> $y > 2$                 | <b>F.</b> $y > 10$                |

**Graph the equation.**

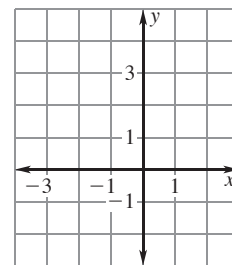
**34.**  $y - 4x = 0$



**35.**  $y - x = 5$

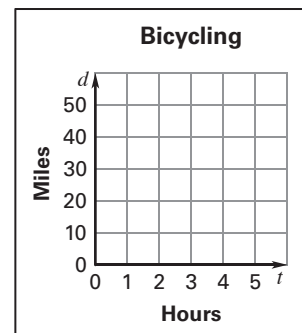
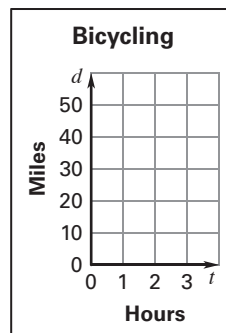


**36.**  $y + 2x = -1$



**37. Bicycling** You ride your bicycle at a rate of 10 mi/h. The distance  $d$  (in miles) that you ride is given by the function  $d = 10t$  where  $t$  is the time in hours.

- You ride for 3 hours. Graph the function and identify its domain and range. What is the greatest distance you can ride in 3 hours?
- Suppose you ride for 5 hours. Graph the function and identify its domain and range. What is the greatest distance you can ride in 5 hours?



**38. Science Experiment** You are doing a science experiment in which an object is heated in a kiln. The temperature of the kiln increases  $2^\circ\text{F}$  every second. The temperature  $t$  (in degrees Fahrenheit) of the kiln every second is given by the function  $t = 2s$  where  $s$  is the time in seconds.

- You want the kiln to reach a maximum temperature of  $700^\circ\text{F}$ . Graph the function and identify its domain and range. How many seconds will it take the kiln to reach  $700^\circ\text{F}$ ?
- Suppose you turn off the kiln after 50 seconds. Graph the function and identify its domain and range. What is the temperature when you turn off the kiln?

