Name _____ Date _____

LESSON 4.2

Practice A

For use with pages 215–222

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

1. $x + y = 6$
a. (2, 2) **b.** (5, 1)

2. $3x + y = 10$
a. (3, 1) **b.** (1, 3)

3. $y - x = 4$
a. (9, 5) **b.** (5, 9)

4. $x - y = 2$
a. (6, 4) **b.** (5, 7)

5. $x + 3y = -2$
a. (−6, 6) **b.** (4, −2)

6. $-4x + y = -11$
a. (3, 1) **b.** (1, 3)

7. $2x + 2y = 6$
a. (−4, 5) **b.** (6, −3)

8. $6x - 2y = -4$
a. (−1, −1) **b.** (−3, −2)

9. $2x - 5y = -14$
a. (2, −2) **b.** (−2, 2)

10. $x = -3$
a. (2, −3) **b.** (−3, 2)

11. $y = 4$
a. (6, 4) **b.** (4, 6)

12. $x = 0$
a. (0, 7) **b.** (−4, 0)

Solve the equation for *y*.

13. $x + y = 7$

14. $-x + y = 4$

15. $-x + y = 0$

16. $3x + y = 10$

17. $-2x + y = 11$

18. $4x + 2y = 6$

19. $x + 8y = 24$

20. $-6x + 2y = 10$

21. $2x + 3y = 12$

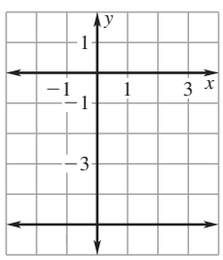
Match the equation with its graph.

22. $x + y = 0$

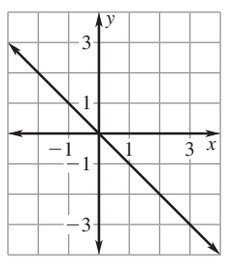
23. $x = -3$

24. $y = -5$

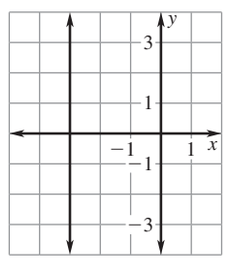
A.



B.

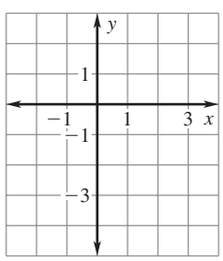


C.

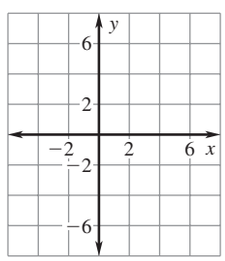


Graph the equation.

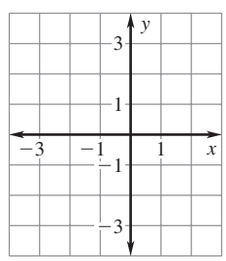
25. $x - 2 = 0$



26. $y + 5 = 0$



27. $2y = -6$



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LESSON 4.2

Practice A *continued*

For use with pages 215–222

Match the equation with its range.

28. $y = 3x - 4, x > 2$ **29.** $y = 3x + 4, x < 1$ **30.** $y = 2x - 4, x < 3$

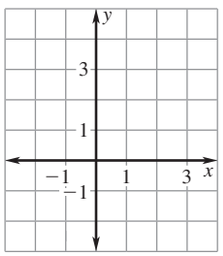
31. $y = 4x - 2, x < 3$ **32.** $y = 4x + 2, x > 2$ **33.** $y = 2x + 4, x < 1$

A. $y < 10$ **B.** $y < 7$ **C.** $y < 6$

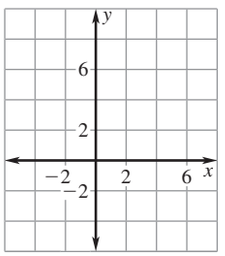
D. $y < 2$ **E.** $y > 2$ **F.** $y > 10$

Graph the equation.

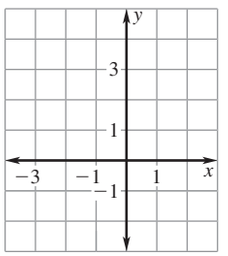
34. $y - 4x = 0$



35. $y - x = 5$



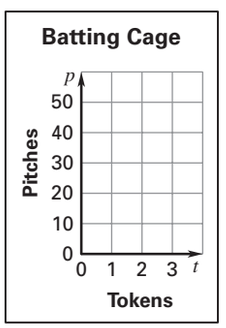
36. $y + 2x = -1$

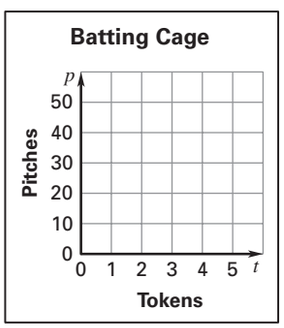


37. Batting Cage You are at a sports center that has batting cages. The number of pitches p you can get for t tokens is given by the function $p = 10t$.

a. You have 3 tokens. Graph the function and identify its domain and range. What is the greatest number of pitches you can get for your tokens?

b. Suppose you have 5 tokens. Graph the function and identify its domain and range. What is the greatest number of pitches you can get for your tokens?





38. Digital Photos You downloaded photos from your digital camera onto your computer. Each photo takes up 2 megabytes of space. You now want to burn these photos onto a CD. The number p of photos that will fit on a CD is given by the function $s = 2p$ where s is the amount of space (in megabytes) available on a CD.

a. One CD can store up to 700 megabytes of space. Graph the function and identify its domain and range. How many photos can you fit on one CD?

b. Suppose you have 50 photos. Graph the function and identify its domain and range. How much space (in megabytes) will the photos take up?