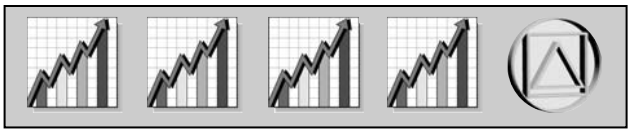
Name: _____

Date: _____ Grade: _____

SECTION QUIZ 5-1



Remember:
Score an 85% or higher on all three quizzes and you may be exempt from the chapter test!



Congratulations! You have completed this section!
Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 2.1 points.

1. *x* is considered to be the _____ variable, because you can allow *x* to be any number that you choose.

2. The value of *y* _____ on the value of *x*.

Determine the domain and range of the following relations defined by the sets of ordered pairs:
{(2, 3), (4, 5), (1, 2), (6, 7)}

3. D: _____

4. R: _____

{(1, 5), (2, 5), (3, 5), (4, 5)}

5. D: _____

6. R: _____

{(14, 3), (4, 15), (11, 12), (16, 7)}

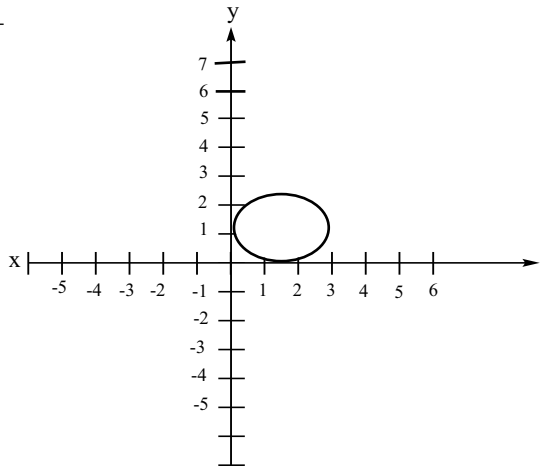
7. D: _____

8. R: _____

Determine the domain and range of each of the following graphs.

9. Domain, D: _____

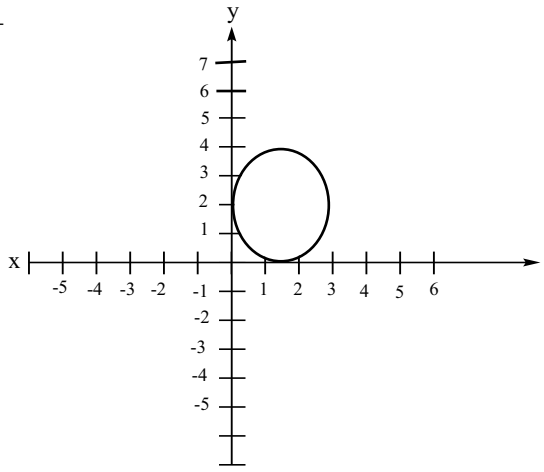
10. Range, R: _____



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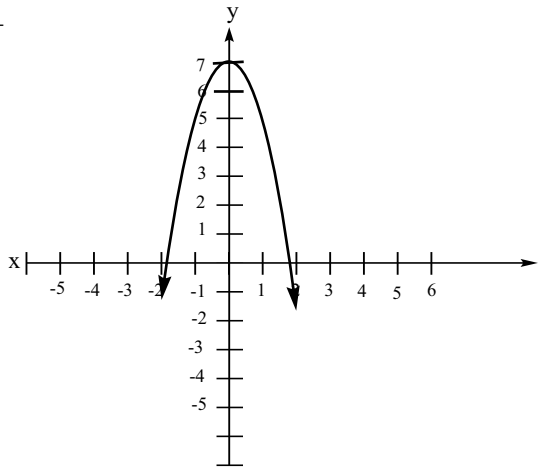
11. Domain, D: _____

12. Range, R: _____



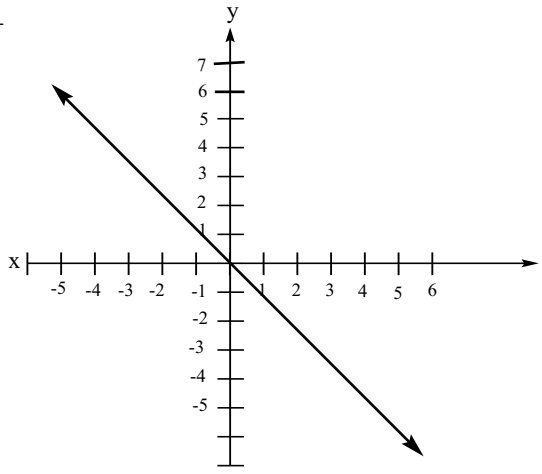
13. Domain:, D: _____

14. Range, R: _____



15. Domain:, D: _____

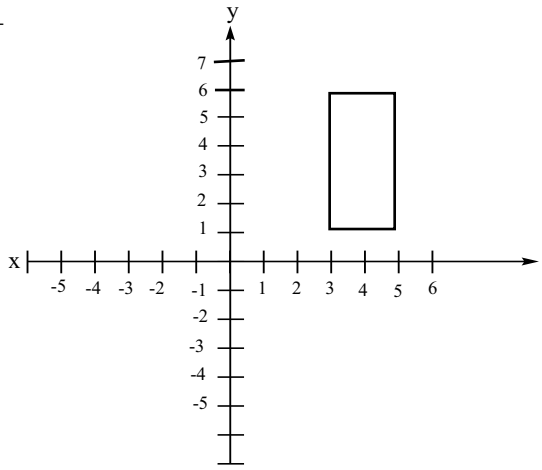
16. Range, R: _____



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17. Domain:, D: _____

18. Range, R: _____



19. Does the line shown below represent a function? _____ (a) Yes or (b) No



20. Does the curve shown below represent a function? _____ (a) Yes or (b) No



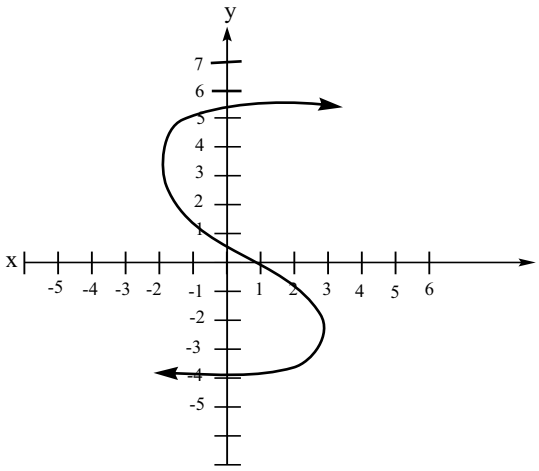
Determine if the following are representative of a function. Use the Vertical Line Test or the fact that the abscissas must be different to make your decision. Write "function" or "not a function" on each blank.

21. {(3, 8), (2, 4), (3, 6), (5, 2)} _____

22. {(2, 12), (7, 14), (5, 19), (6, 13), (1, 26)} _____

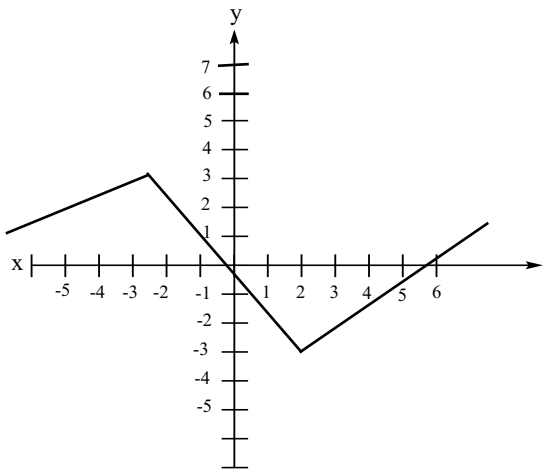
23. {(89, 7), (89, 5), (89, 4)} _____

24. _____

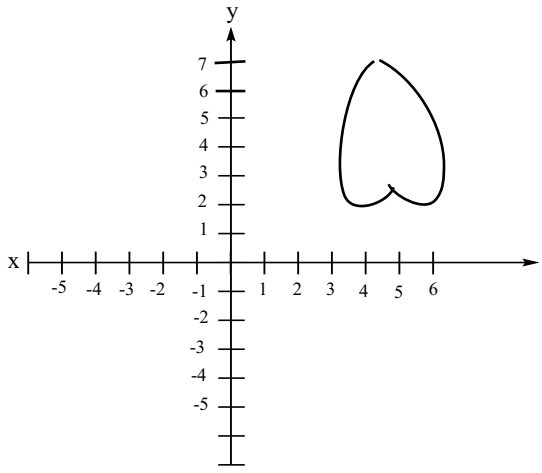


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25. _____



26. _____



Calculate the values of *y* in each equation by using the values of *x* = -1, 0, 1, 2, 3, 4. Write your answers on the blanks as ordered pairs.

27. $y = x + 4$ _____

28. $y = 3x - 2$ _____

29. $y = 2x + 5$ _____

30. $y = x - 15$ _____

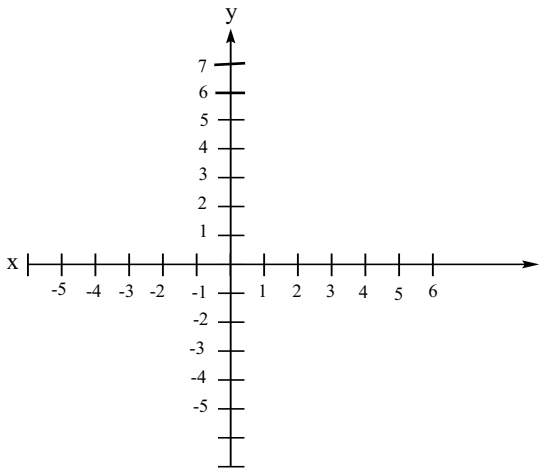
31. $y = 2x - 3$ _____

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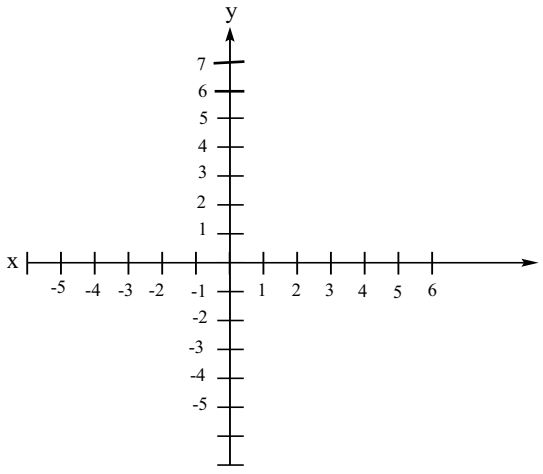
SECTION QUIZ 5-1

Graph the following functions on the Cartesian coordinate plane. Remember to substitute values of *x* into the equations and calculate *y*. (The easiest and most used values are: *x* = -2, -1, 0, 1, 2, 3. You may use other values if you wish.)

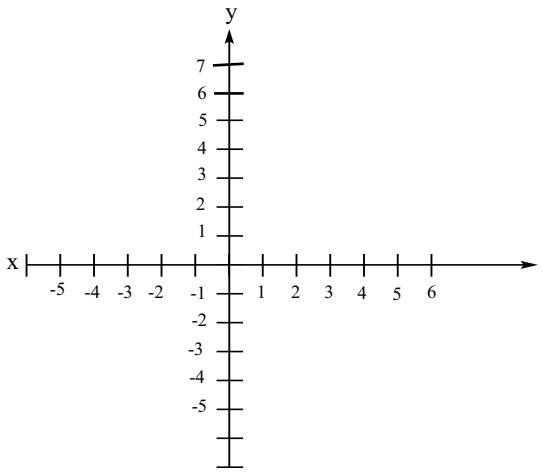
32. $y = x - 1$



33. $y = x$

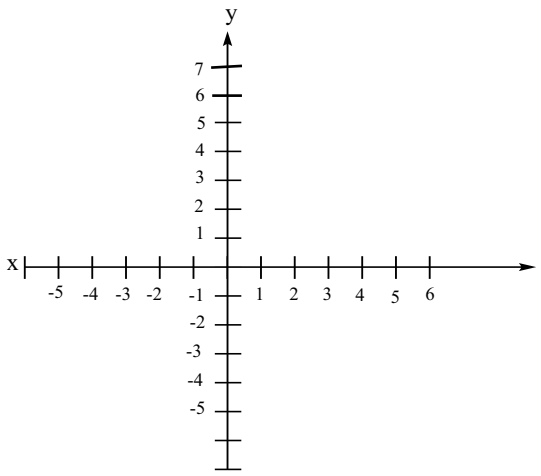


34. $y = 3x$

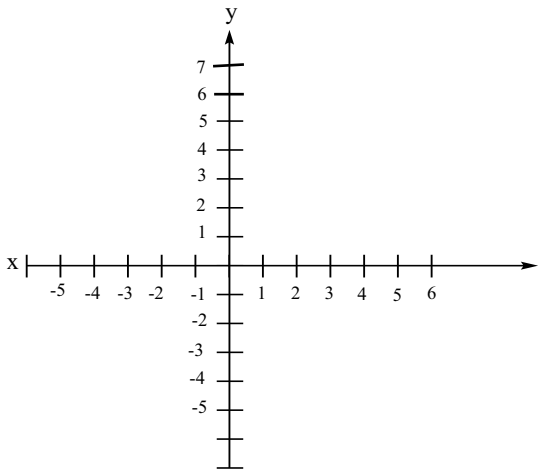


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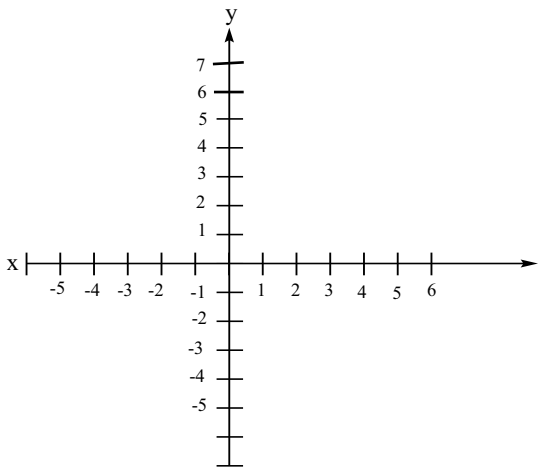
35. $y = -\frac{1}{2}x + 2$



36. $y = -x + 2$



37. $y = -\frac{1}{4}x + 2$



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SECTION QUIZ 5-1

Determine a possible solution to the following problems involving ordered triplets. Show your work and place your answer on the blank as an ordered triplet.

38. $200 = x \bullet y \bullet z$ _____

39. $2x \bullet y \bullet z = 132$ _____ (Hint: Even numbers can always be divided by 2.)

40. $a \bullet b \bullet c = 24$: Determine c, if the ordered triplet $(2, 1, c)$ solves the equation. c=_____

41. Johnny needs a box that is 6 inches in height and 3 inches wide. Determine the length of the box, if the box needs to contain a volume of 360 cubic inches. Write the answer as an ordered triplet: (l, h, w). _____

42. The ordered triplet below is a solution to $V = l \times h \times w$: (l, h, w). Determine the volume that the solution represents. (9, 6, 2); V = _____

Match the following Life Principles.

43. _____ *"You may find the worst enemy*

44. _____ *"The reputation of a thousand years*

45. _____ *"When eating fruit,*

46. _____ *"All glory comes*

47. _____ *"The best mirror*

(a) *is a friend's eye."*

(b) *think of the person who planted the tree."*

(c) *from daring to begin."*

(d) *may be determined by the conduct of one hour."*

(e) *or best friend in yourself."*

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