

Algebra 1 Unit Review

-Linear Equations-

Name _____

Date _____

1. Which point is on the graph $y = 2 - x$?

- A (2, 4)
- B (5, 3)
- C (2, -4)
- D (5, -3)

2. Is the point (5, 2) a solution to $2y + x = 9$?

Circle one: YES NO

Find the x and y -intercepts of the following equations:

3. $y = 3x - 12$

4. $8x + 7 = y$

5. What is the x -intercept of the line defined by $-2x + 3y = 12$?

- A 6
- B 4
- C -4
- D -6

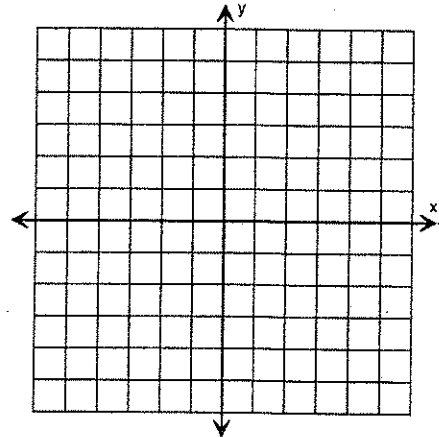
Create a table of ordered pairs for this equation:

6. $y = 5 - 2x$

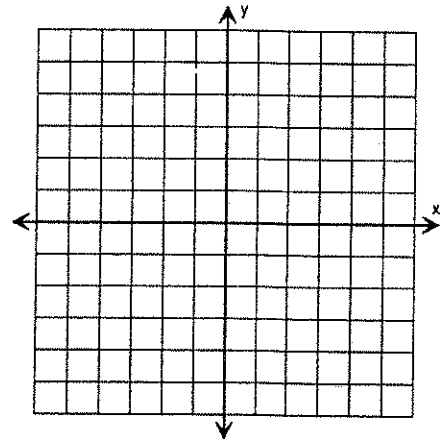
x	y

Graph the following equations by using ANY method

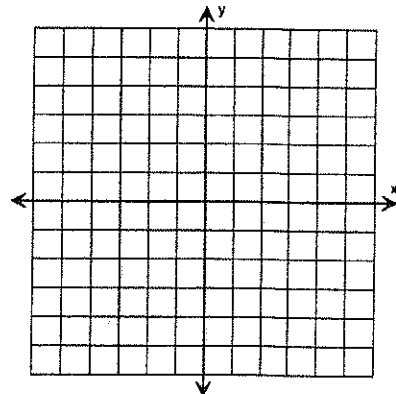
7. $y = 3x - 1$



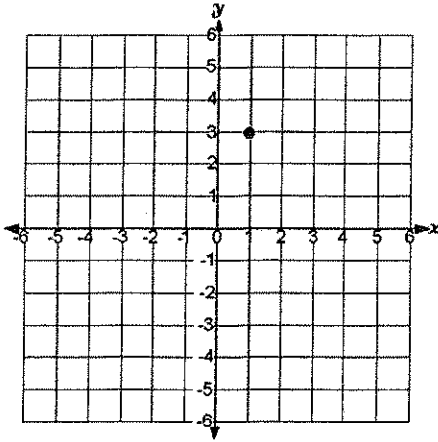
8. $y = 5 - x$



9. Graph $4x + 2y = 10$

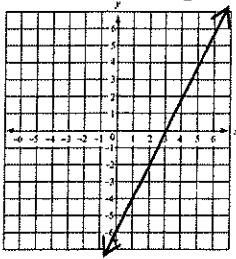


10. What is the ordered pair for the point graphed below?



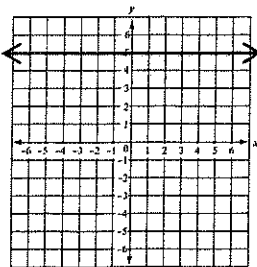
- A $(-1, -3)$
- B $(-1, 3)$
- C $(1, 3)$
- D $(3, 1)$

11. What is the x-intercept of the graph?

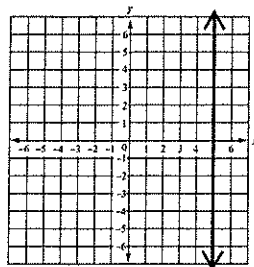


- A $(-12, 0)$
- B $(-6, 0)$
- C $(3, 0)$
- D $(6, 0)$

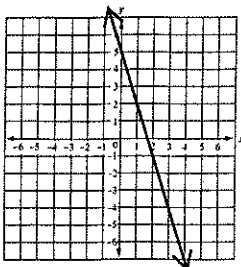
12. Which of the following is the graph of $y = 3x + 5$?



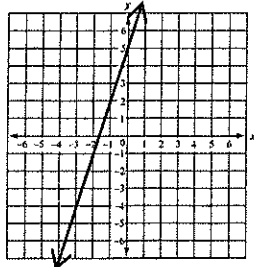
A



C



B



D

13. Write the equation of the line that passes through the point $(1, 2)$ and has a slope of 3.

14. Write the equation of the line that passes through $(0, 8)$ and has a slope of -1 .

15.

x	y
-2	7
0	9
2	11

Which of the following equations was used to generate the table above?

- A $y = -x + 9$
- B $y = x + 7$
- C $y = -x - 2$
- D $y = x + 9$

16. Write an equation of the line that created this table of ordered pairs:

x	y
1	4
3	10
5	16

17. What is the equation of the line that created this table:

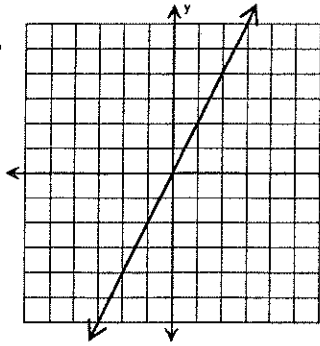
x	y
1	9
4	3
7	-3

- A $y = -2x + 11$
- B $y = 2x - 5$
- C $y = 2x + 1$
- D $y = -2x + 5$

18. Which of the following equations below represents the line that passes through (1, 10) and (0, 7)?

- A $y = x + 9$
- B $y = 3x + 2$
- C $y = 3x + 7$
- D $y = -3x + 13$

19. Which equation *best* represents the graph to the left?

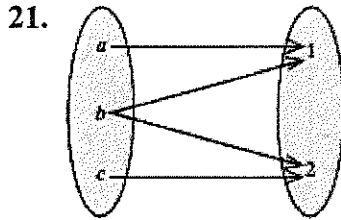


- A $y = x$
- B $y = 2x$
- C $y = x + 2$
- D $y = 2x + 2$

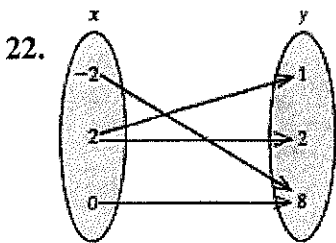
For questions 20 & 21, write the relation as a set of ordered pairs, b. identify the domain, and c. identify the range.

20.

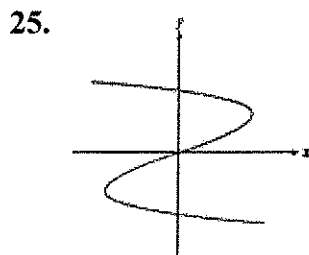
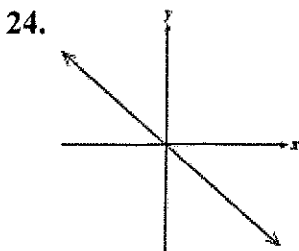
Parent, x	Child, y
Kevin	Katie
Kevin	Kira
Kathleen	Katie
Kathleen	Kira



In questions 22-25, determine if the relation defines y as a function of x .



23. $\{(1, 2), (3, 4), (5, 4), (-9, 3)\}$



Evaluate the following functions.

26. $g(x) = 3x - 3$; Find $g(-6)$

27. $f(x) = 4x - 5$; Find $f(x - 2)$

28. $h(n) = -2n^2 + 4$; Find $h(4)$

29. $f(x) = x^2 - 3x$; Find $f(8)$

