

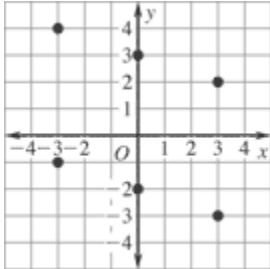
Solving & Graphing Linear Equations Test

Name:

Date:

Tell whether the relation represented by the graph is a function.

1.



Write the equation in function form.

2. $6y - 4x = 24$

Find the slope of the line through the given points.

3. $(34, 15), (16, 30)$

4. $(9, 14), (-7, -6)$

Tell whether the ordered pair is a solution of the equation.

5. $y = 9x - 10;$

$(1, -1)$

6. Write an equation of the line with the given slope and y-intercept.

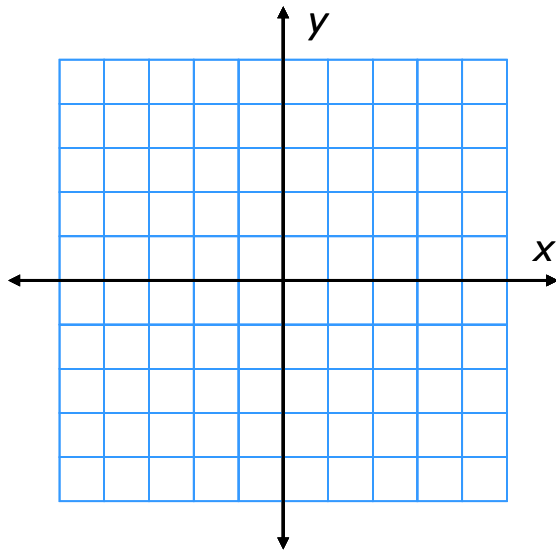
slope = -2 ; y-intercept = 8

7. What is the **y-intercept** of the graph of $3x + 6y = -12$?

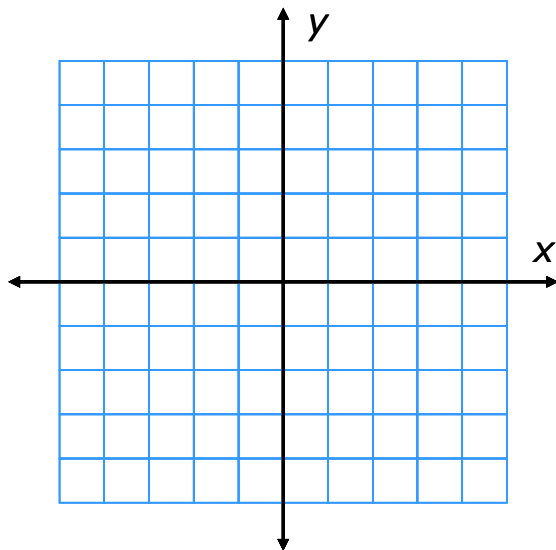
8. What is the **slope of a line parallel** to the line with equation $y = \frac{2}{5}x + 7$?

Find the intercepts of the equation's graph. Then graph the equation on the given coordinate grid.

9. $2x + y = -2$



10. $y = -3x + 6$



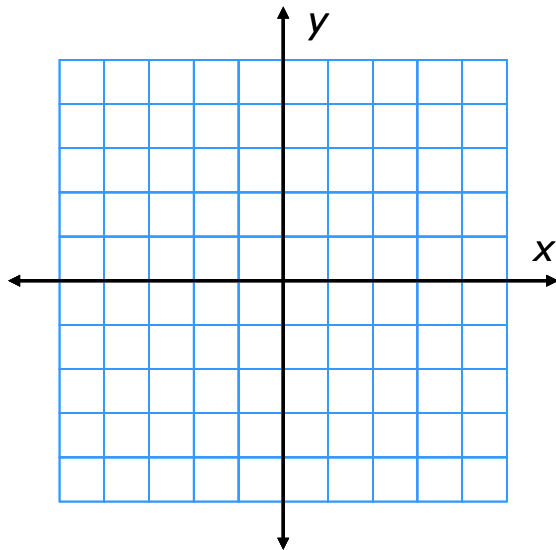
Find the slope and y-intercept of the line with the given equation.

11. $9x + 3y = -81$

12. What is the slope of a line **perpendicular** to the line $2x + 2y = 8$?

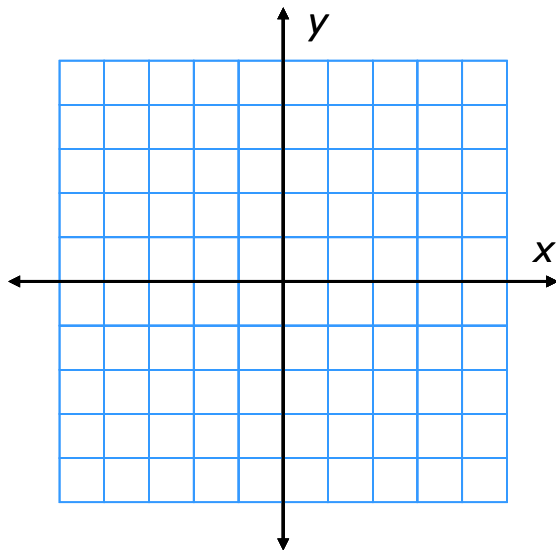
Graph the equation by putting the equation into function form.

13. $-4x + 2y = -8$



Graph of the linear equation.

14. $x = -3$



Tell whether the relation is a function. Explain your answer.

15.

Input	6	7	7	14
Output	5	2	5	2

Find the slope and y-intercept of the line with the given equation.

16. $8x + 3y = 72$

Identify the slope and y-intercept of the line with the given equation.

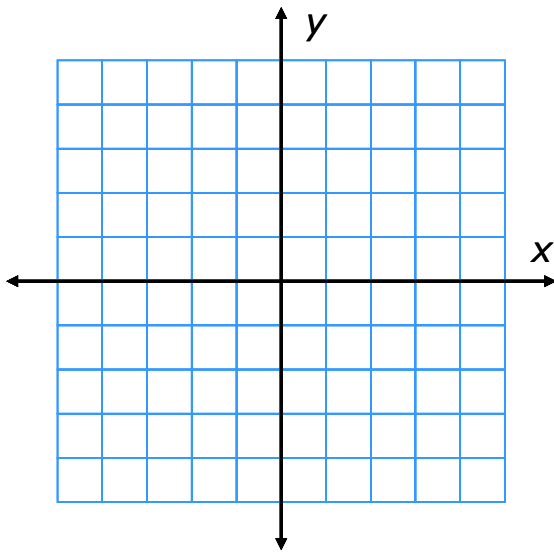
17. $4x + 3y = 9$

18. $5x + 4y = 8$

Solve the following linear system by graphing on the given coordinate grid.

19. $y = 3x + 4$

$y = -x - 4$



20. $4x + y = 5$

$3x + 5y = 25$

