

Name _____

Algebra 1

$$y = mx + b$$

$$y - y_1 = m(x - x_1)$$

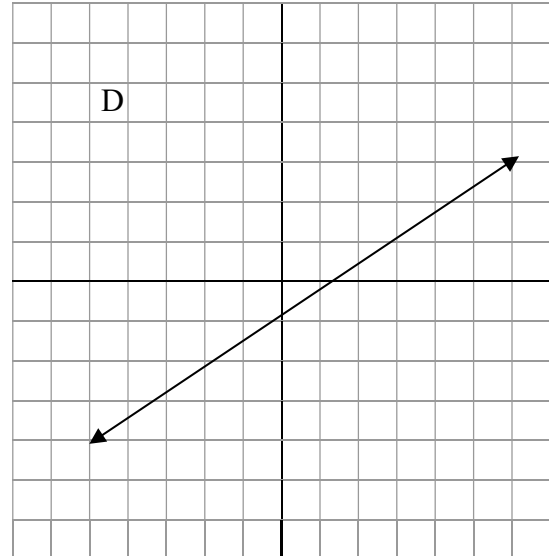
$$\text{slope} = \frac{y_2 - y_1}{x_2 - x_1}$$

Chapter 6 Practice Test

1. Find the slope and y-intercept of line D.

Slope = _____

y-intercept = _____



2. Write the equation of the line in Problem 1.

3. Rearrange $2x - 4y = 8$ into slope-intercept form.

4. Find the x-intercept and y-intercept of each line.

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

(, 0)

(0,)

b. $5x - 3y = 15$

(, 0)

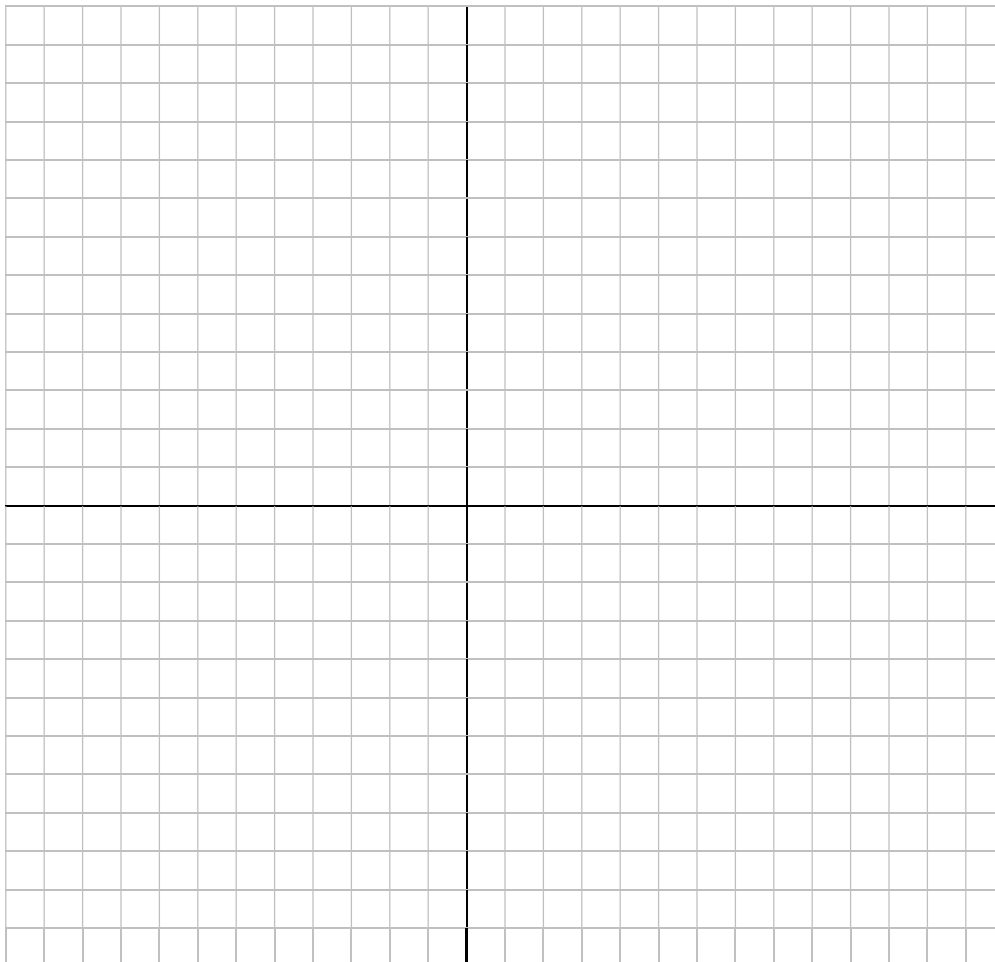
(0,)

5. Find the slope of a line passing through (-2, 1) and (4, 3).

6. What is the slope of a horizontal line?

7. What is the slope of a vertical line?

8. Write the equation of the line with a y-intercept of 3 and a slope of 6.
9. Write the equation of the line that has a slope of $\frac{3}{4}$ and passes through $(-2, 7)$.
10. Write the equation of the line that passes through $(1, 2)$ and $(5, -6)$.
11. Write the equation of a horizontal line that passes through $(-9, 14)$.
12. Write the equation of a vertical line that passes through $(6, -7)$.
13. Graph these lines.
- a. $3x - 4y = 12$
 - b. $y = -\frac{1}{2}x + 9$
 - c. $y = -4$
 - d. $x = -3$

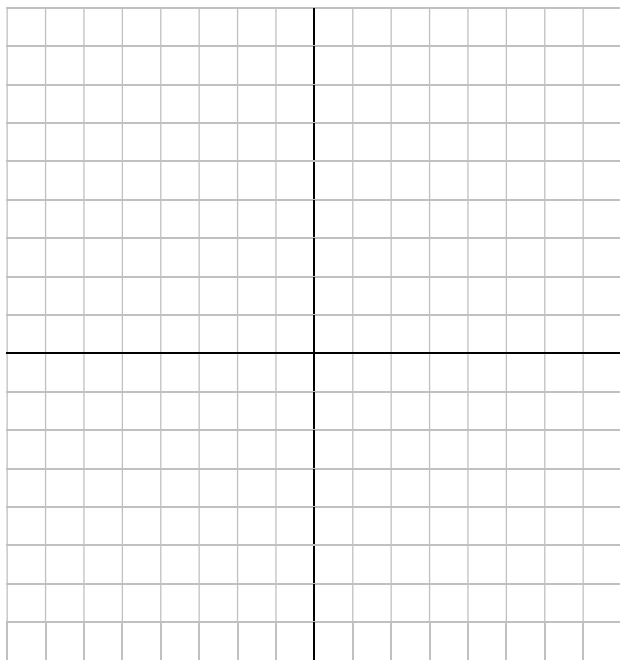


14. Graph these inequalities.

a. $y \leq 2x - 6$

b. $3x - y < 3$

a.



b.

