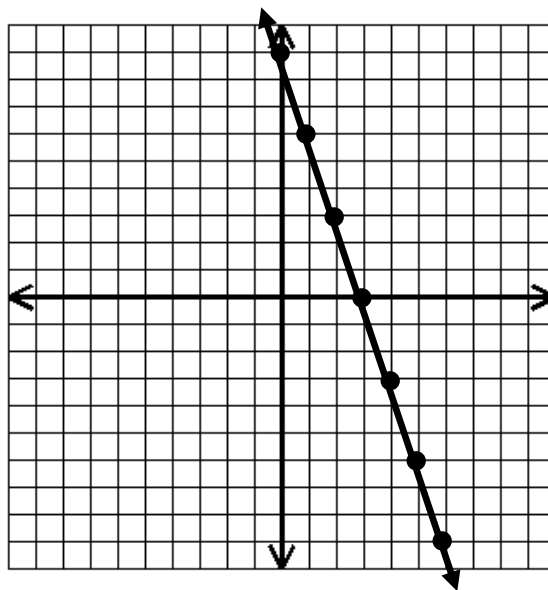


Name \_\_\_\_\_

## WRITING EQUATIONS OF LINES WITH A POINT AND SLOPE

Answer the following questions using the given graph.

- 1) What is the constant rate of change?
- 2) What are the coordinates of the y-intercept?
- 3) What are the coordinates of the x-intercept?
- 4) What is the equation of the line in slope-intercept form?



Slope-intercept form for a line: \_\_\_\_\_

Write the equation of each line in slope-intercept form.

5. slope of 2 and y-intercept of 15

6. Slope of  $\frac{5}{4}$  and goes through the point (-4, -7)

7. Slope of -3 and x-intercept of 2

8. Slope of 0 and passes through the point (-3, -5)

9. Slope of  $-\frac{1}{4}$  and x-intercept of -8.

10. Undefined slope and passes through the point (6, 1)

11. Write and graph the equation of a line with the same slope as the linear parent function which passes through the point (-3, -9).

What is the x-intercept?

What is the y-intercept?

