

Parallel Lines Investigation

During this activity you will be discovering the rule of writing equations of parallel lines!

Directions: Graph the points and use a ruler to draw the line that passes through them. Use a color of your choice for each line. *Tell me what color you used for each line.*

Color:

(-3, 2) and (0, 4)

(-5, -1) and (5, -5)

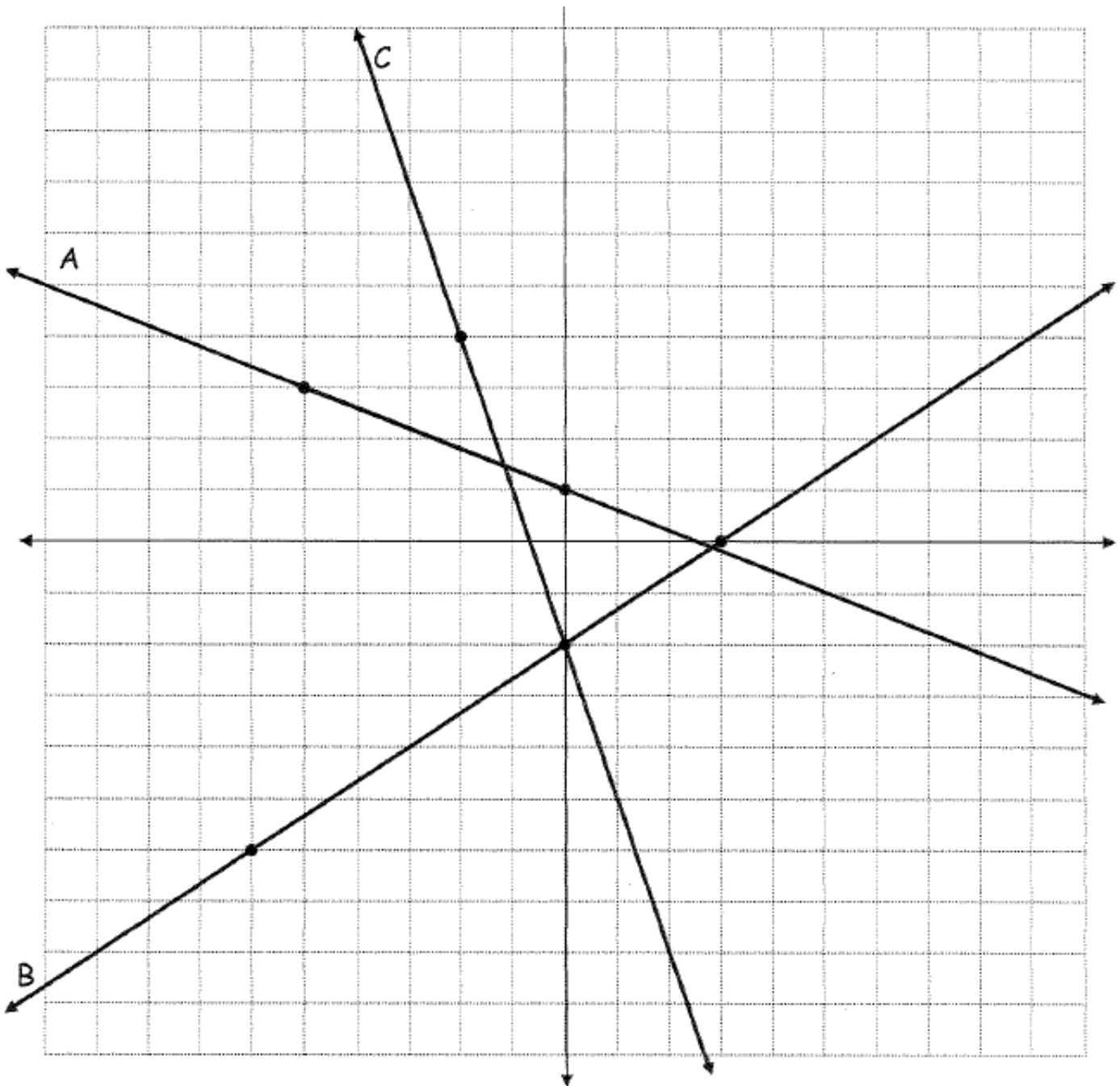
(1, 1) and (2, -2)

Given lines and Their Points

A: (0, 1) and (-5, 3)

B: (3, 0) and (-6, -6)

C: (-2, 4) and (0, -2)



Name: _____ Per: _____

The equation for A is $y = -\frac{2}{5}x + 1$

The equation for B is $y = \frac{2}{3}x - 2$

The equation for C is $y = -3x - 2$

Directions: Use the points given to write the equation of each colored line in slope-intercept form.

<i>Color:</i> _____	<i>Color:</i> _____	<i>Color:</i> _____
<i>Equation:</i> _____	<i>Equation:</i> _____	<i>Equation:</i> _____

Direction: Use your graph to help answer the following questions.

1. Which colored line is parallel to line A? _____

What are the equations of these two lines?

2. Which colored line is parallel to line B? _____

What are the equations of these two lines?

3. Which colored line is parallel to line C? _____

What are the equations of these two lines?

