What's my line?



Student Worksheet

7 8 9 10 11 12









TI-Nspire

Investigation

Student

90 min

Introduction

The classroom activity is a 'whole class' guessing game, where a random line is drawn on the Cartesian plane by the calculator, and you must write down the associated linear function rule. Record your answers to each game in the spaces provided.

Game 1

1.
$$y = x + x$$

$$2. y = \boxed{ x + \boxed{}}$$

3.
$$y = x + x$$

4.
$$y = x + x$$

5.
$$y = x + x$$

Game 2

1.
$$v = x + x$$

2.
$$y = x + x$$

3.
$$y = x +$$

4.
$$y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y$$

5.
$$y = x + x$$

Game 3

1.
$$v = x + x$$

2.
$$y = x + x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x$$

3.
$$y = x + x$$

4.
$$y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y$$

5.
$$y = x + x$$

Game 4

1.
$$v = \begin{bmatrix} x + \end{bmatrix}$$

2.
$$y = x + x$$

4.
$$y = x + x$$

5.
$$y = x + y$$

Game 5

1.
$$v = x + x$$

3.
$$v = x + x$$

$$4. v = \boxed{x+}$$

5.
$$v = x + x$$

Game 6

1.
$$v = x + x$$

2.
$$y = x + x$$

3.
$$v = x + x + y$$

4.
$$y = x + x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x + y = x$$

5.
$$y = x + y$$



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