Math 9

4.4 - Linear Relations III

Warm Up

The lines of the grid intersect to form the rectangle, $D\!E\!F\!G\,$.

The equations of the lines are:

$$y = \frac{1}{2}x - \frac{1}{2};$$
 $y = -2x + 5;$ $y = -2x - 8;$ $x - 2y = -8$

Determine the equations of the lines that form each side of the rectangle:

EF:

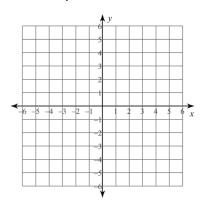
DG:

DE:

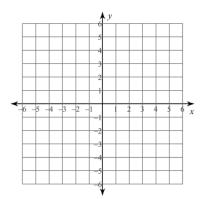
FG:

Graphs & Equations of Two Special Linear Relations

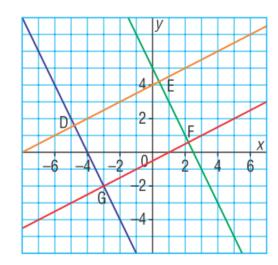
On the grid given below, plot all points that have a y - coordinate of 3.



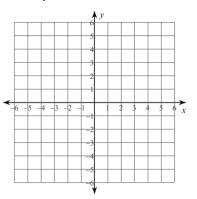
On the grid given below, plot all points that have an x - coordinate of 3.



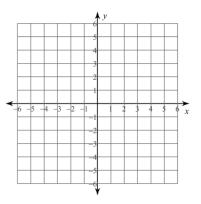
Name:_____ Date: _____



On the grid given below, plot all points that have a y - coordinate of -4 .

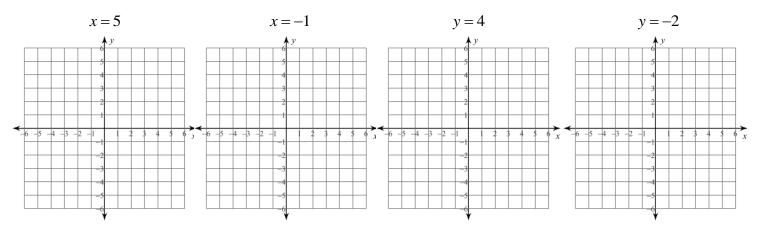


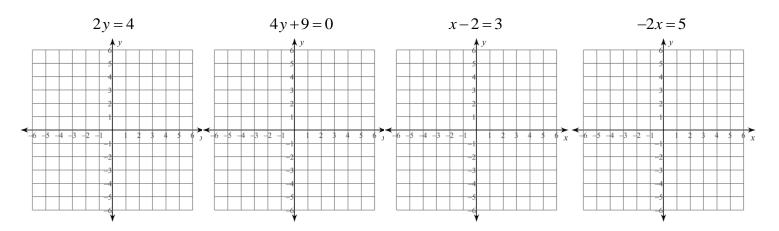
On the grid given below, plot all points that have an x - coordinate of -4.



The graph of x = 3 is a ______ of 3.

Sketch the graphs represented by the following Linear Equations:





Match each graph on the grid with its equation. Explain your strategy.

