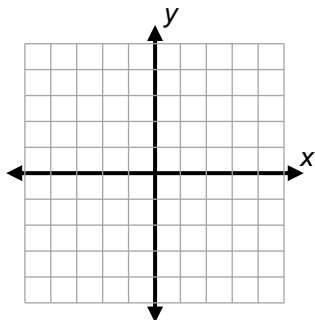Name _____   Period _____   Date _____

GRAPHING EXPLORATION 1

Go to desmos.com and click "start graphing" to access the graphing calculator. Graph each set of functions, sketch the graphs, and answer the questions.

Set 1	**Set 2**
$y = 2x$ $y = 2x + 1$ $y = 2x - 3$	$y = -3x$ $y = -3x + 2$ $y = -3x - 1$

How are Set 1 lines the same?

Different?
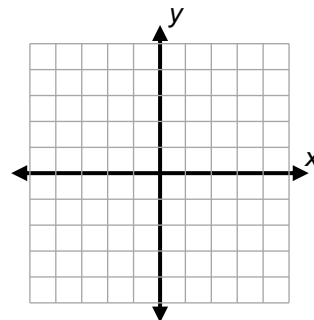
How are Set 2 lines the same?

Different?

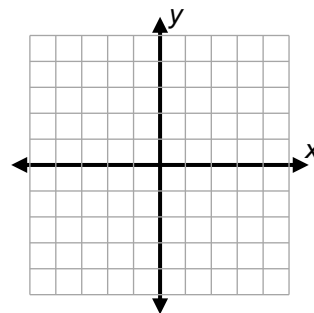| **Set 3**	**Set 4**
$y = 3x + 1$ $y = x + 1$ $y = \frac{1}{2}x + 1$	$y = -3x - 1$ $y = -x - 1$ $y = -\frac{1}{3}x - 1$
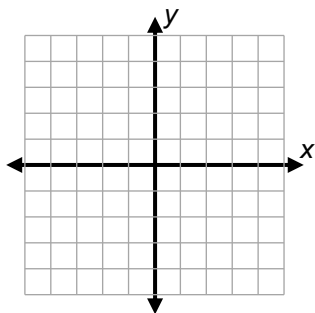
How are Set 3 lines the same?

Different?

How are Set 4 lines the same?

Different?