Correction Relationships between Linear Graphs

Plot each pair of linear graphs on the axes given. Write a sentence about what you notice about each pair of lines.

1) On the axes on the right, plot the graphs of

y = 2x + 1 and y = 3x + 1

Table of values of y = 2x + 1

х	-2	-1	0	1	2
У					

Table of values of y = 3x + 1

Х	-2	-1	0	1	2
У					

2) On the axes on the right, plot the graphs of y = 2x - 1 and y = 2x - 2

y = 2x - 2

Table of values of y = 2x - 1

х	-2	-1	0	1	2
У					

Table of values of y = 2x - 2

Х	-2	-1	0	1	2
у					

3) On the axes on the right, plot the graphs of y = -2x and y = -2x + 1

Table of values of y = -2x

Х	-2	-1	0	1	2
У					

Table of values of y = -2x + 1

Х	-2	-1	0	1	2
у					







4) On the axes on the right, plot the graphs of $y = \frac{1}{2}x$ and y = 2x

Table of values of $y = \frac{1}{2}x$							
Х	-2	-1	0	1	2		
У							

Table of values of y = 2x

Х	-2	-1	0	1	2
У					

5) On the axes on the right, plot the graphs of $y = -\frac{1}{2}x$ and

y = -2x

You need to draw your own tables of values form now on.

6) On the axes on the right, plot the graphs of $y = \frac{1}{2}x + 1$ and y = -2x + 3

7) On the axes on the right, plot the graphs of $y = \frac{3}{4}x + 1$ and $y = -\frac{4}{3}x + 3$

EXTENSION:

Generalise the conclusions you have made from the questions above. What do you notice? Can you give another pair of equations that follow the same rule?

