INVESTIGATION

The effects of m and c on a straight line graph

On the same set of axes, plot the following graphs:

1. $y=x-2$

2. $y=x-1$
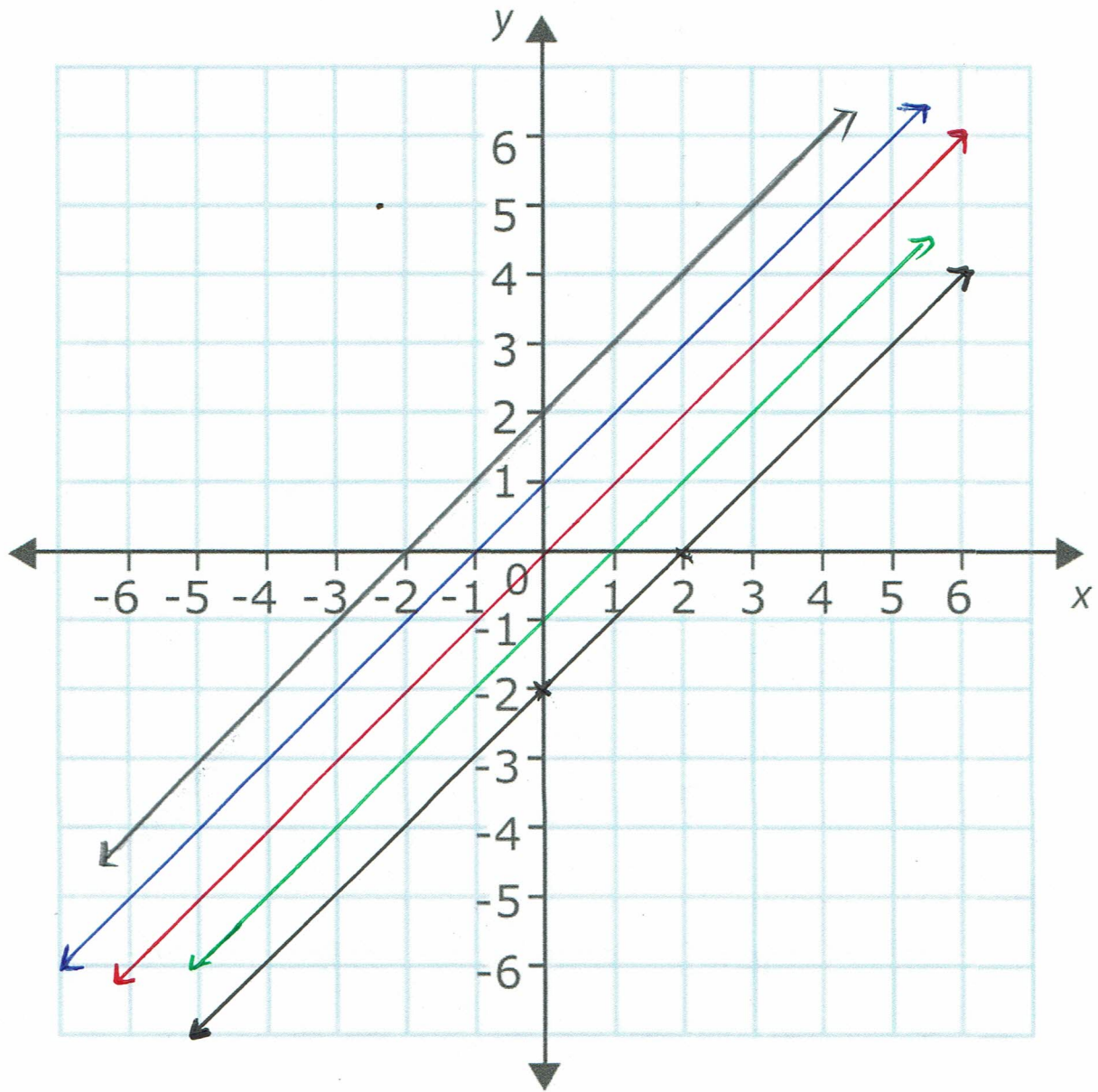
3. $y=x$

4. $y=x+1$

5. $y=x+2$

a. Make table of values and use x values from -2 to 2
b. Use different colors to join the lines.
c. Use the graph paper given below

x	−2	−1	0	1	2		
$y=x-2$	−4	−3	−2	−1	0		
$y=x-1$	−3	−2	−1	0	1		
$y=x$	−2	−1	0	1	2		
$y=x+1$	−1	0	1	2	3		
$y=x+2$	0	1	2	3	4		

Key

——	$y = x$
——	$y = x - 1$
——	$y = x - 2$
——	$y = x + 1$
——	$y = x + 2$