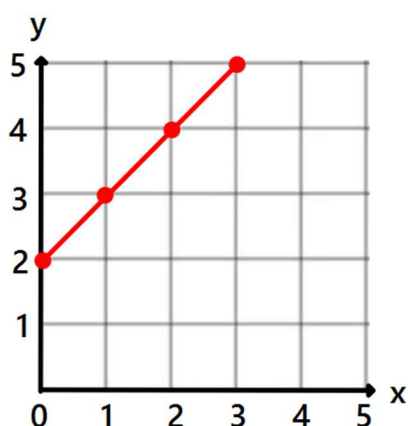


STRAIGHT LINES – TABLE OF VALUES

- 1) Use the table and coordinate grid to plot the straight line equation

$$y = x + 2$$

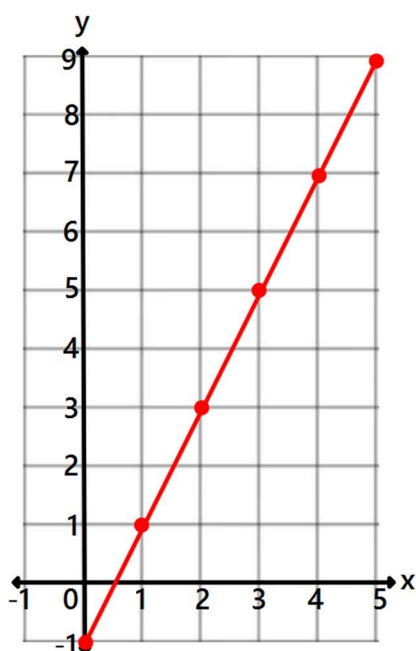
x	0	1	2	3
y	2	3	4	5



- 2) Use the table and coordinate grid to plot the straight line equation

$$y = 2x - 1$$

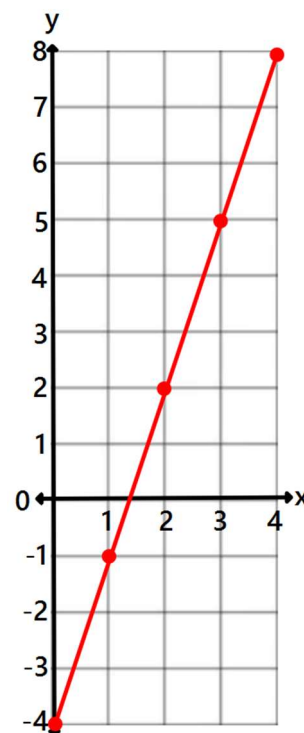
x	0	1	2	3	4	5
y	-1	1	3	5	7	9



- 3) Use the table and coordinate grid to plot the straight line equation

$$y = 3x - 4$$

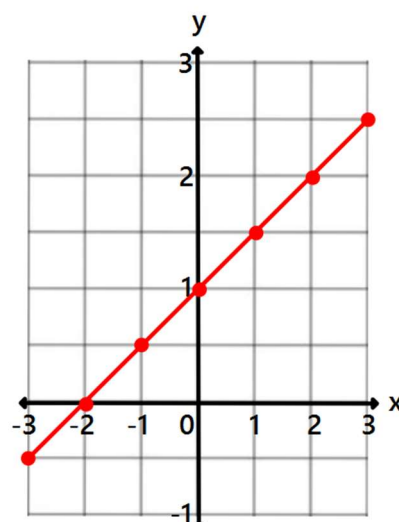
x	0	1	2	3	4
y	-4	-1	2	5	8



- 4) Use the table and coordinate grid to plot the straight line equation

$$y = \frac{1}{2}x + 1$$

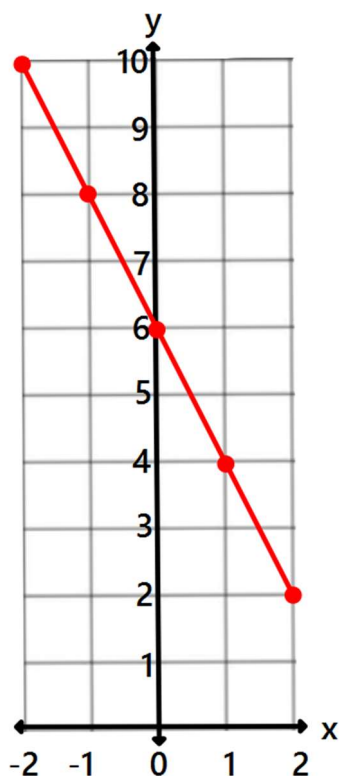
x	-3	-2	-1	0	1	2	3
y	-0.5	0	0.5	1	1.5	2	2.5



- 5) Use the table and coordinate grid to plot the straight line equation

$$y = -2x + 6$$

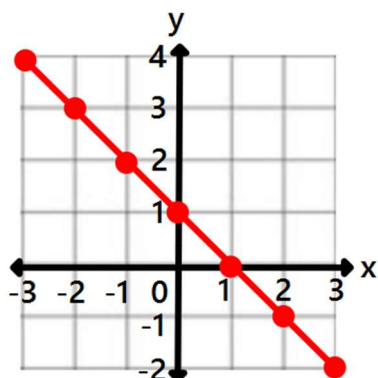
x	-2	-1	0	1	2
y	10	8	6	4	2



- 6) Use the table and coordinate grid to plot the straight line equation

$$y = 1 - x$$

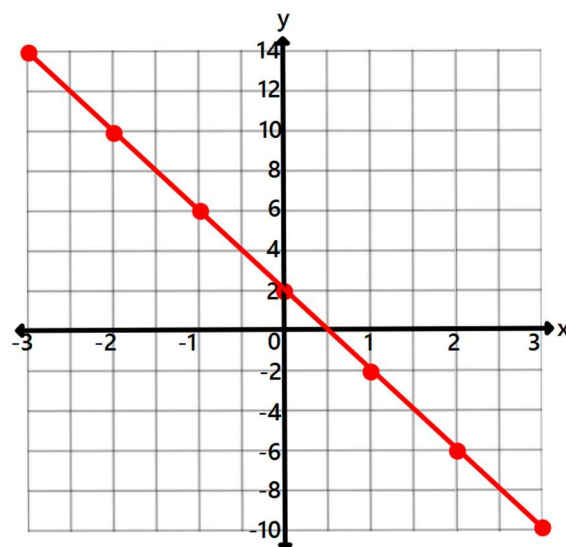
x	-3	-2	-1	0	1	2	3
y	4	3	2	1	0	-1	-2



- 7) Use the table and coordinate grid to plot the straight line equation

$$-4x + 2$$

x	-3	-2	-1	0	1	2	3
y	14	10	6	2	-2	-6	-10



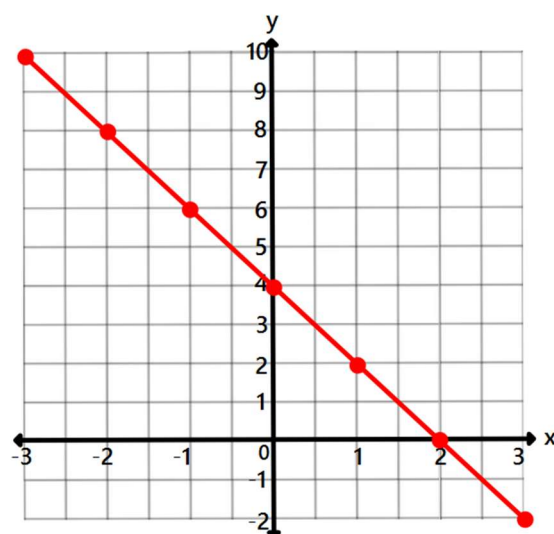
- 8) Use the table and coordinate grid to plot the straight line equation

$$2y + 4x = 8$$

x	-3	-2	-1	0	1	2	3
y	10	8	6	4	2	0	-2

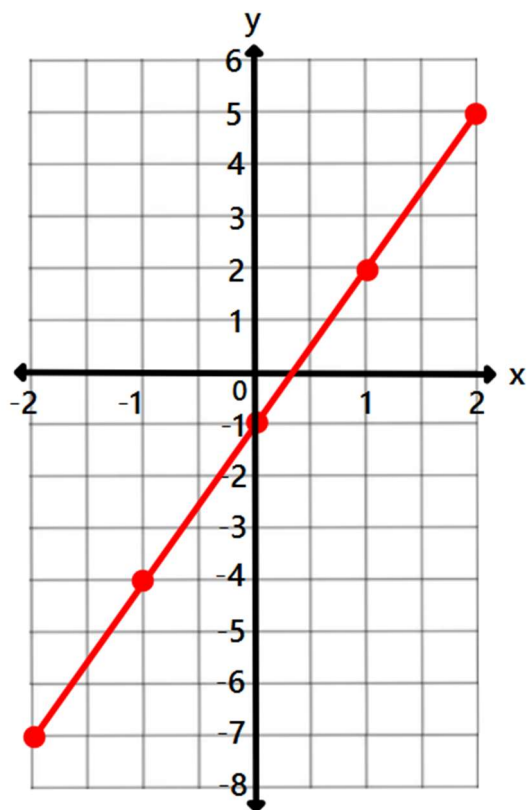
$$2y = -4x + 8$$

$$y = -2x + 4$$



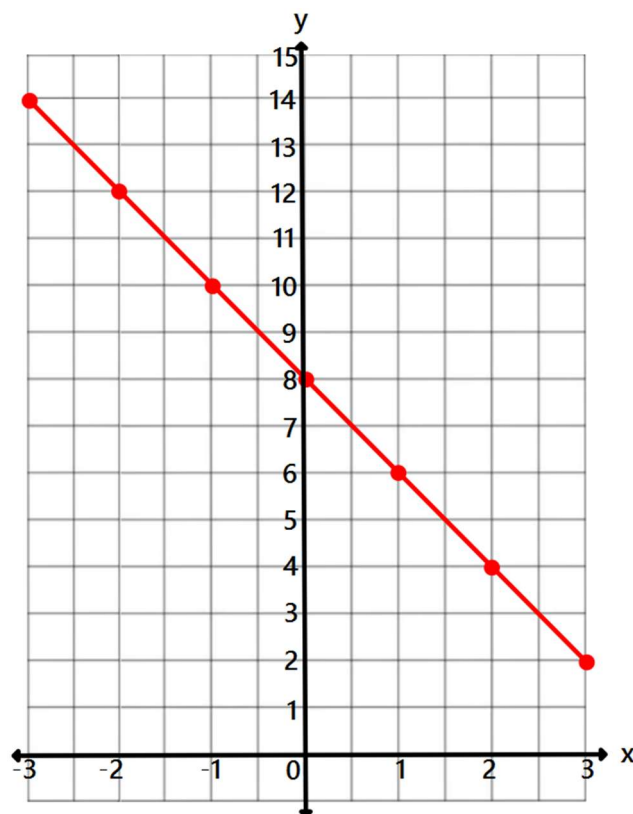
- 9) Plot the graph of the straight line equation
 $y = 3x - 1$ from $-2 \leq x \leq 2$.

x	-2	-1	0	1	2
y	-7	-4	-1	2	5



- 10) Plot the graph of the straight line equation
 $y = 8 - 2x$ from $-3 \leq x \leq 3$.

x	-3	-2	-1	0	1	2	3
y	14	12	10	8	6	4	2



Challenge

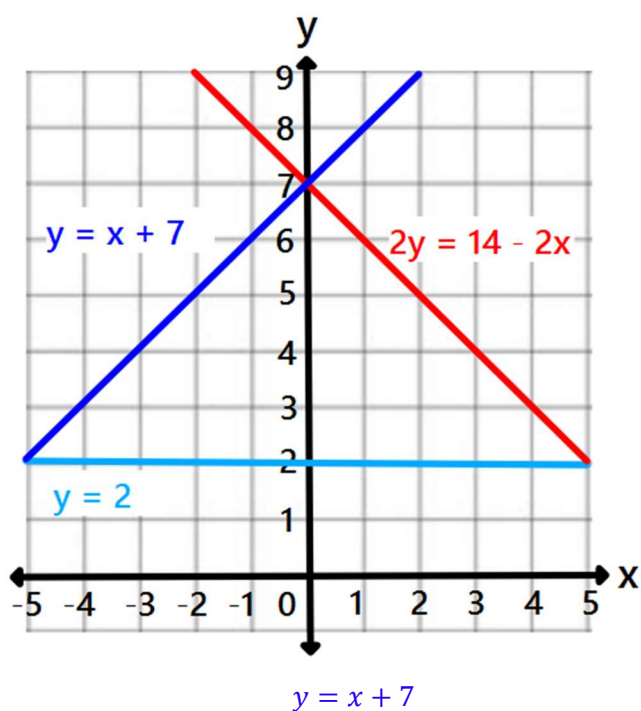
- 11) On the coordinate grid shown, plot the graphs of the following straight-line equations:

$$2y = 14 - 2x$$
$$y = 2$$

A third straight line is added so that the three lines together form an isosceles triangle. Identify the equation of this third line. Give your answer in the form:

$$ax + by + c = 0,$$

where a , b , and c are constants.



Rearranged:

$$-x + y - 7 = 0$$