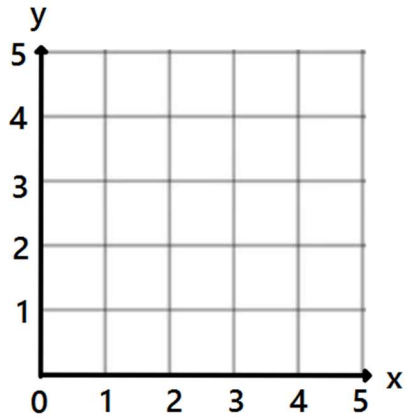
STRAIGHT LINES – TABLE OF VALUES

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

$$y = x + 2$$

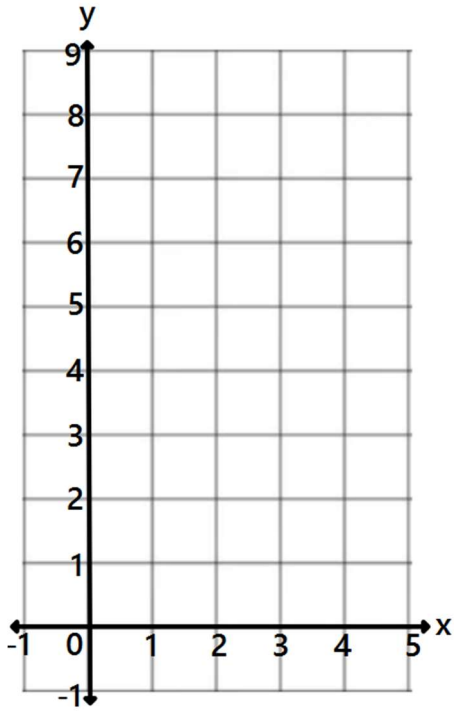
x	0	1	2	3
y				



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

$$y = 2x - 1$$

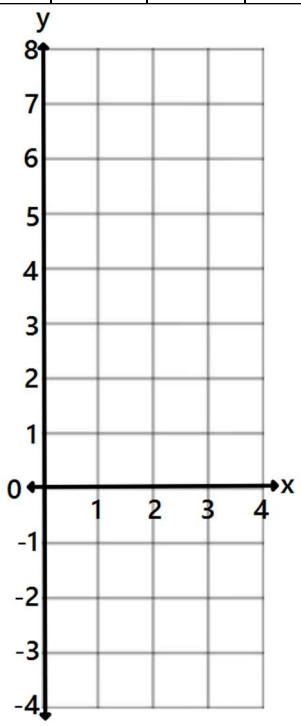
x	0	1	2	3	4	5
y						



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

$$y = 3x - 4$$

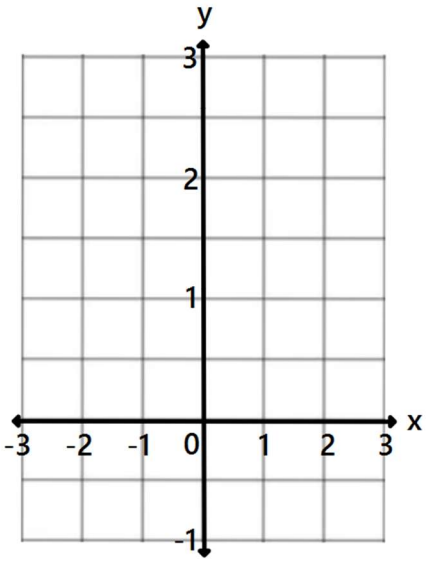
x	0	1	2	3	4
y					



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

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

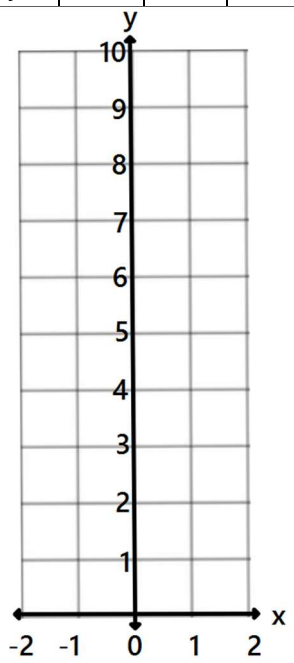
x	-3	-2	-1	0	1	2	3
y							



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

$$y = -2x + 6$$

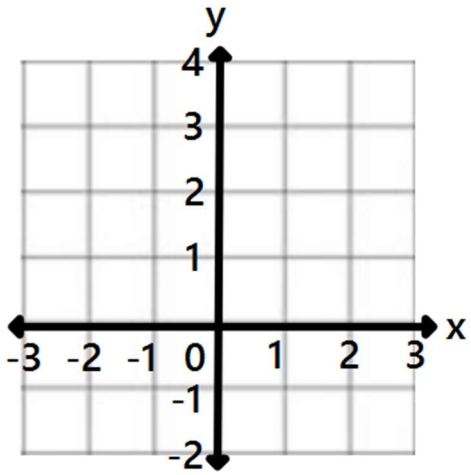
x	-2	-1	0	1	2
y					



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

$$y = 1 - x$$

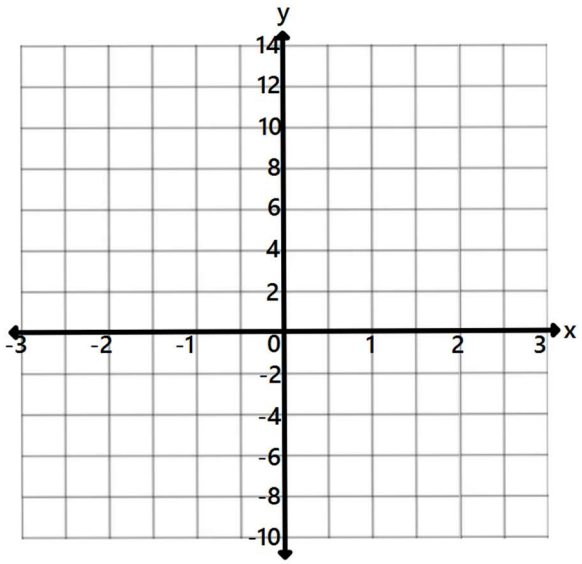
x	-3	-2	-1	0	1	2	3
y							



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

$$-4x + 2$$

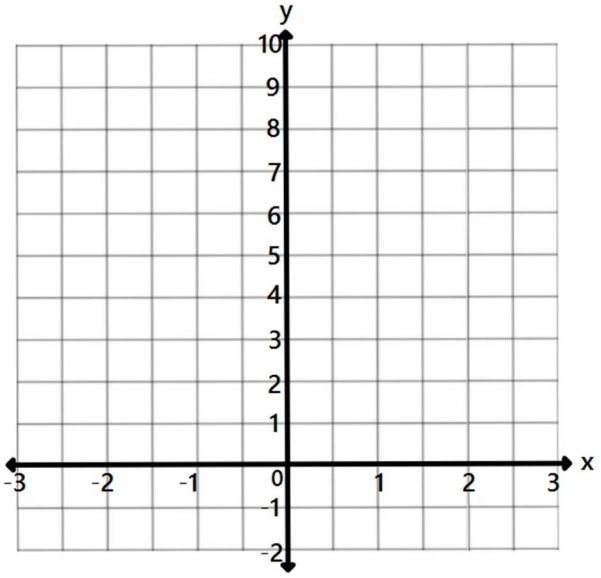
x	-3	-2	-1	0	1	2	3
y							



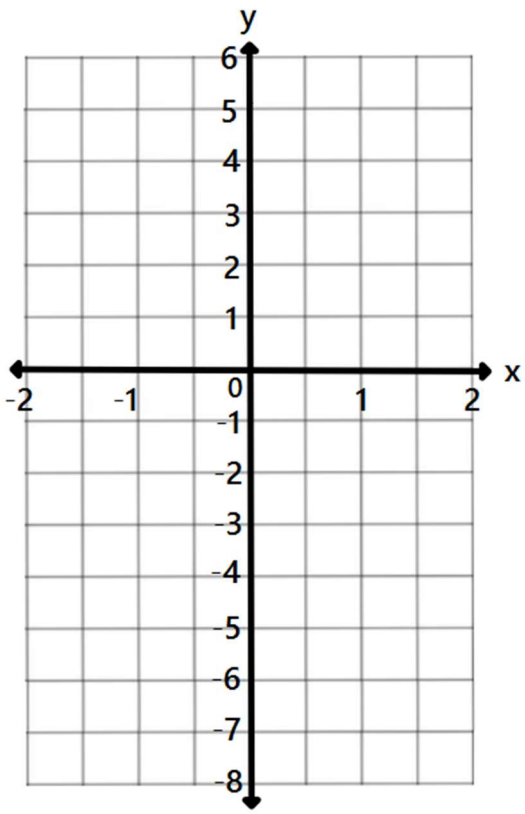
8) **Use the table and coordinate grid to plot the straight line equation**

$$2y + 4x = 8$$

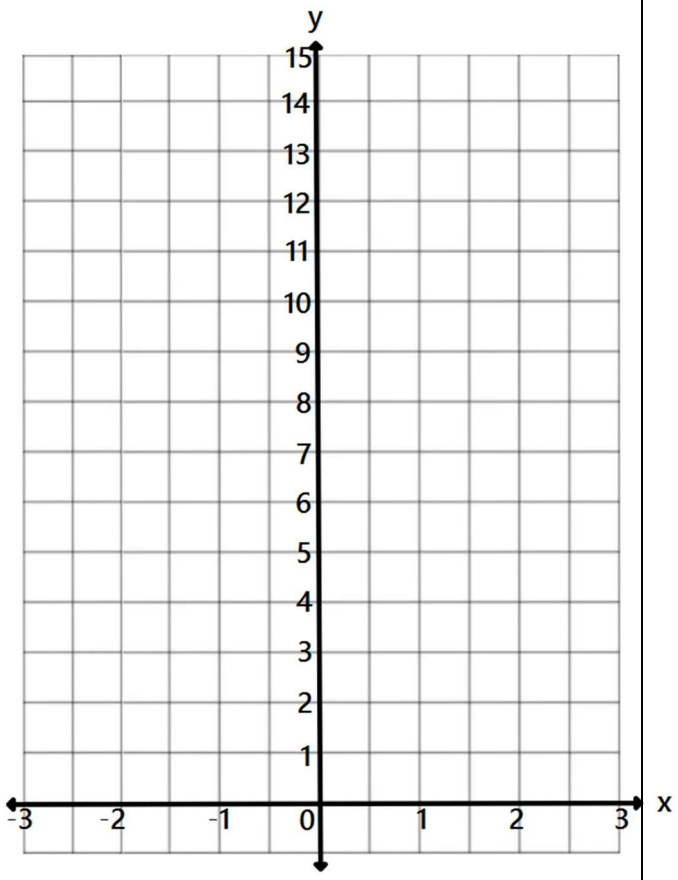
x	-3	-2	-1	0	1	2	3
y							



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



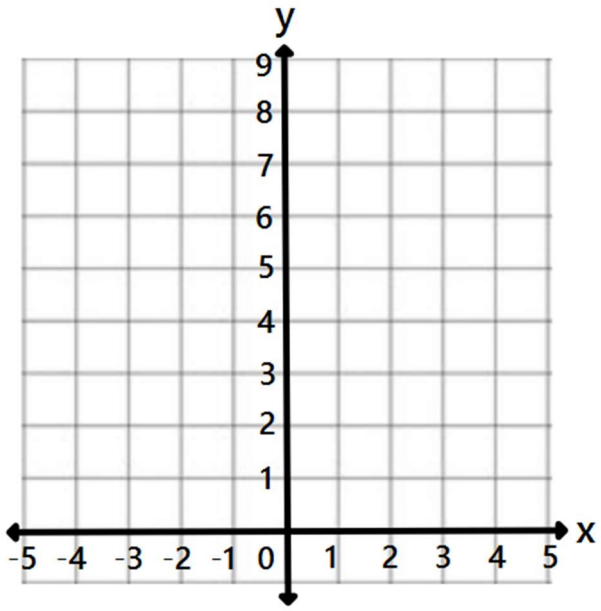
10) **Plot the graph of the straight line equation $y = 8 - 2x$ from $-3 \leq x \leq 3$.**



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.