

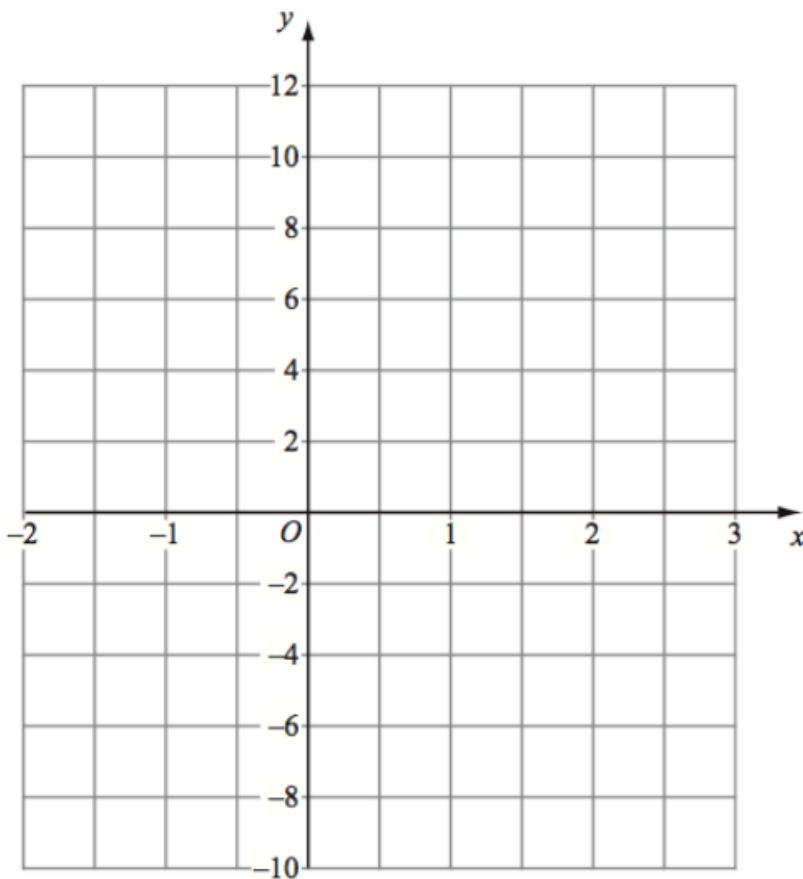
## Y9H U4&5 Linear Graphs – Knowledge Organiser

### Draw linear graphs

a) Complete the table of values for  $y = 2x + 4$ .

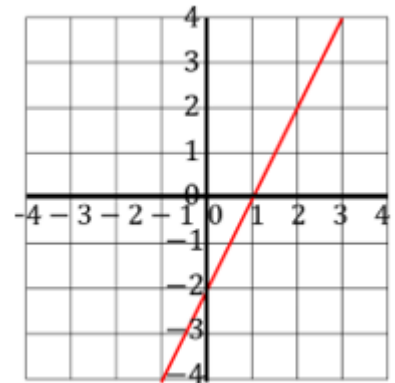
x	-1	0	1	2	3
2x					
2x+4					

b) On the grid, draw the graph of  $y = 2x + 4$  for values of x from -1 to 3.



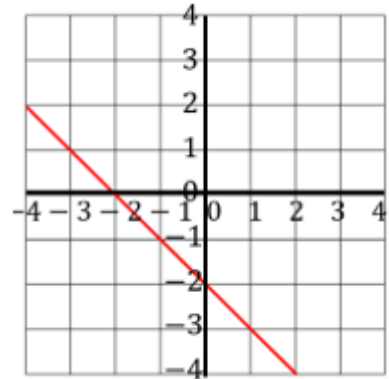
### Write the equation of the straight lines in the form $y = mx + c$

a)



Equation:

b)



Equation:

### Hegarty

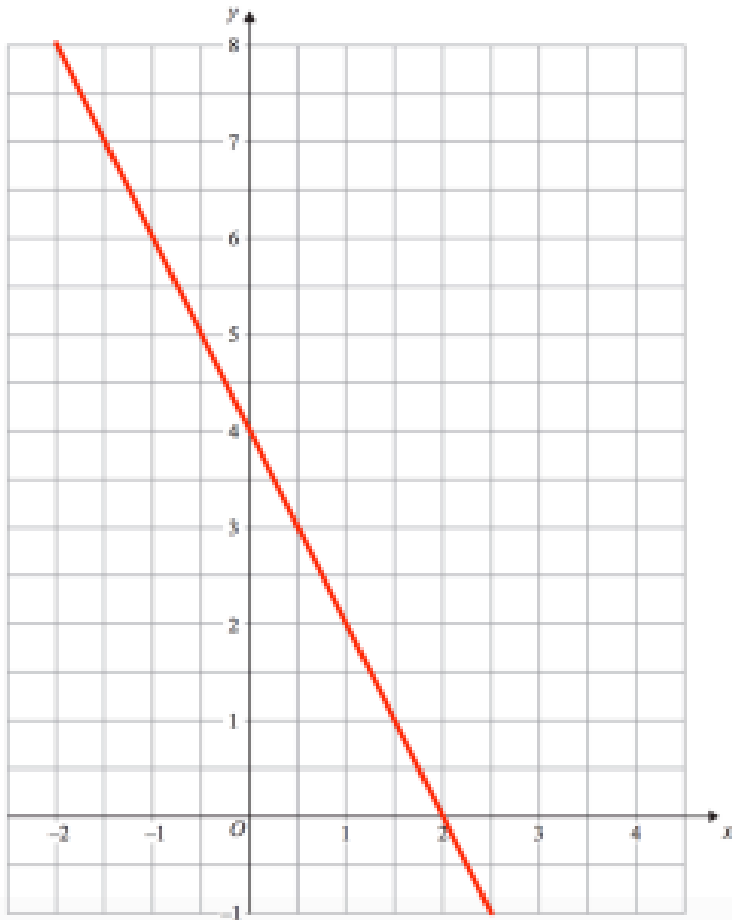
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## Y9H U4&5 Simultaneous Linear Equations – Knowledge Organiser

### Solving graphically

The straight line  $y = -2x + 4$  has been drawn on the grid.

a) on the same grid, draw the graph of  $y = x + 1$



x	-1	0	1	2	3
y					

b) Use the graphs to solve the simultaneous equations:

$$y = -2x + 4$$

$$y = x + 1$$

solution: ( ..., ... )

$$y = -2x + 4$$

Solve the following simultaneous equations through elimination

$$x + 3y = 13$$

$$x + y = 7$$

a) Eliminate one variable

b) Substitute y into one equation

c) Check using the other equation