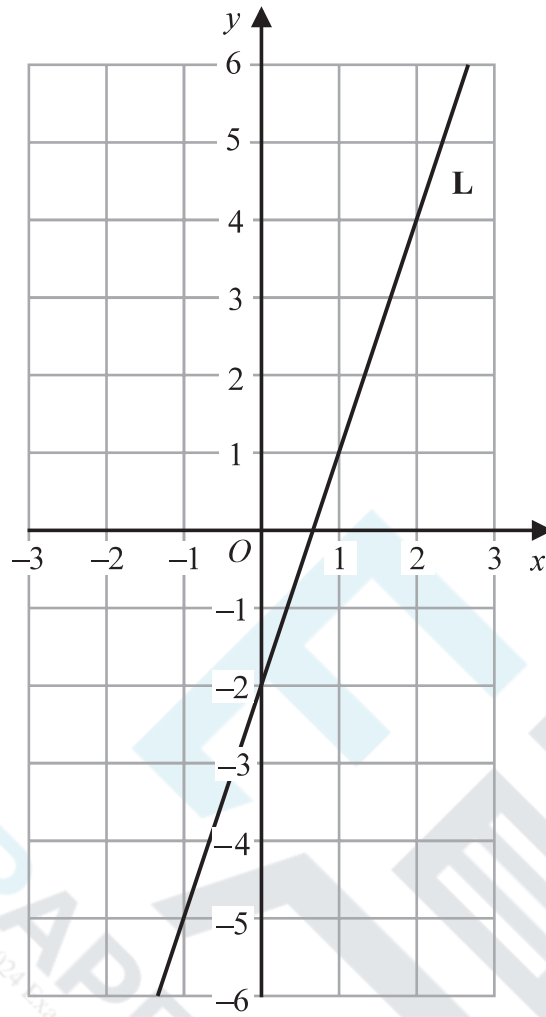




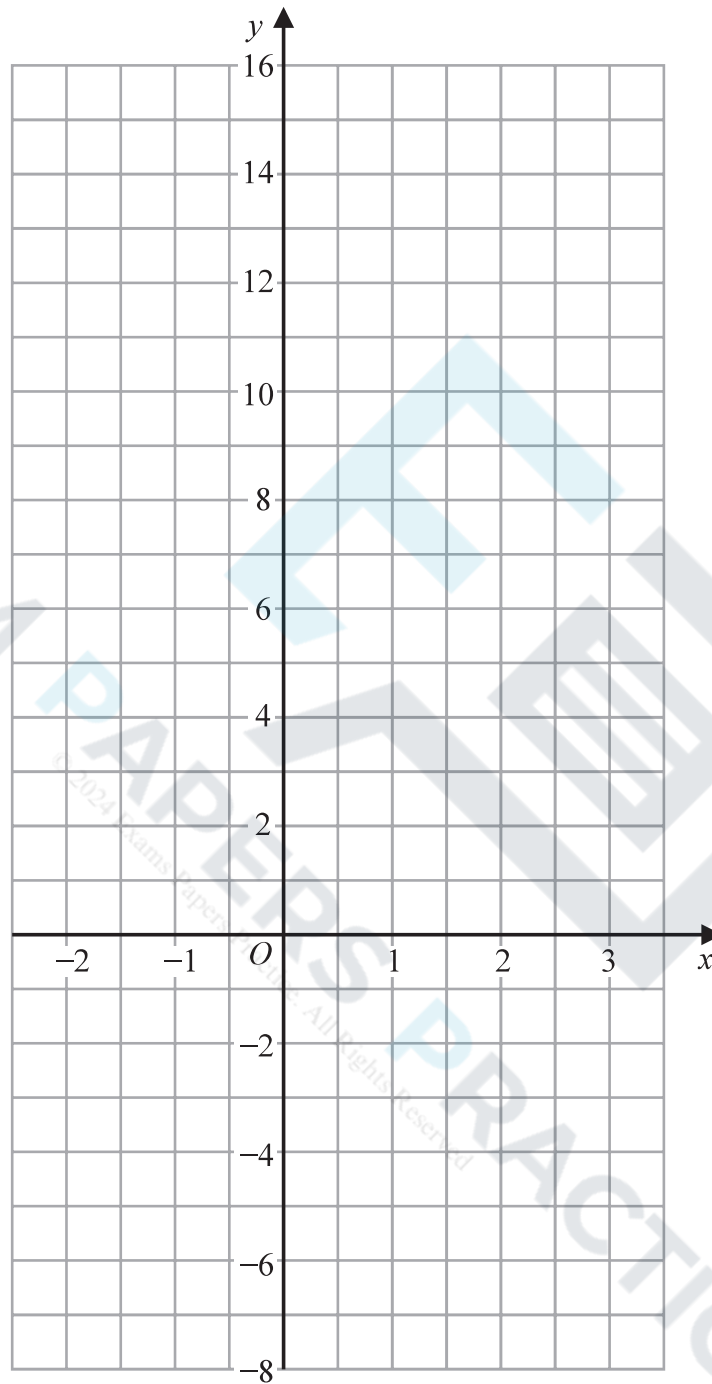
IGCSE Unit 6 Graphs: Question Paper

1 The line **L** is shown on the grid.



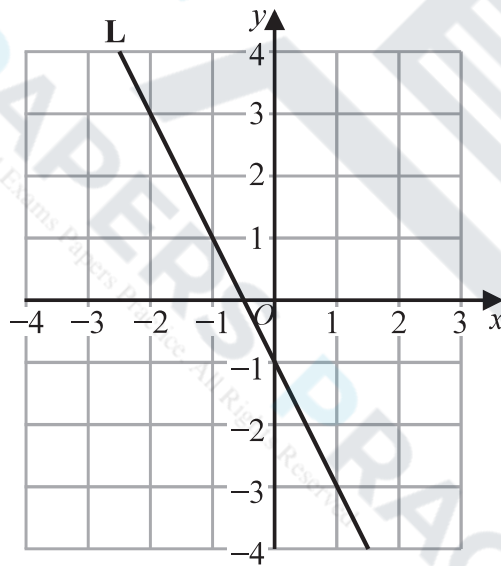
Find an equation for **L**.

2 On the grid, draw the graph of $y = 7 - 4x$ for values of x from -2 to 3



3 Find the gradient of the straight line with equation $5x + 2y = 7$

4 Line **L** is drawn on the grid.

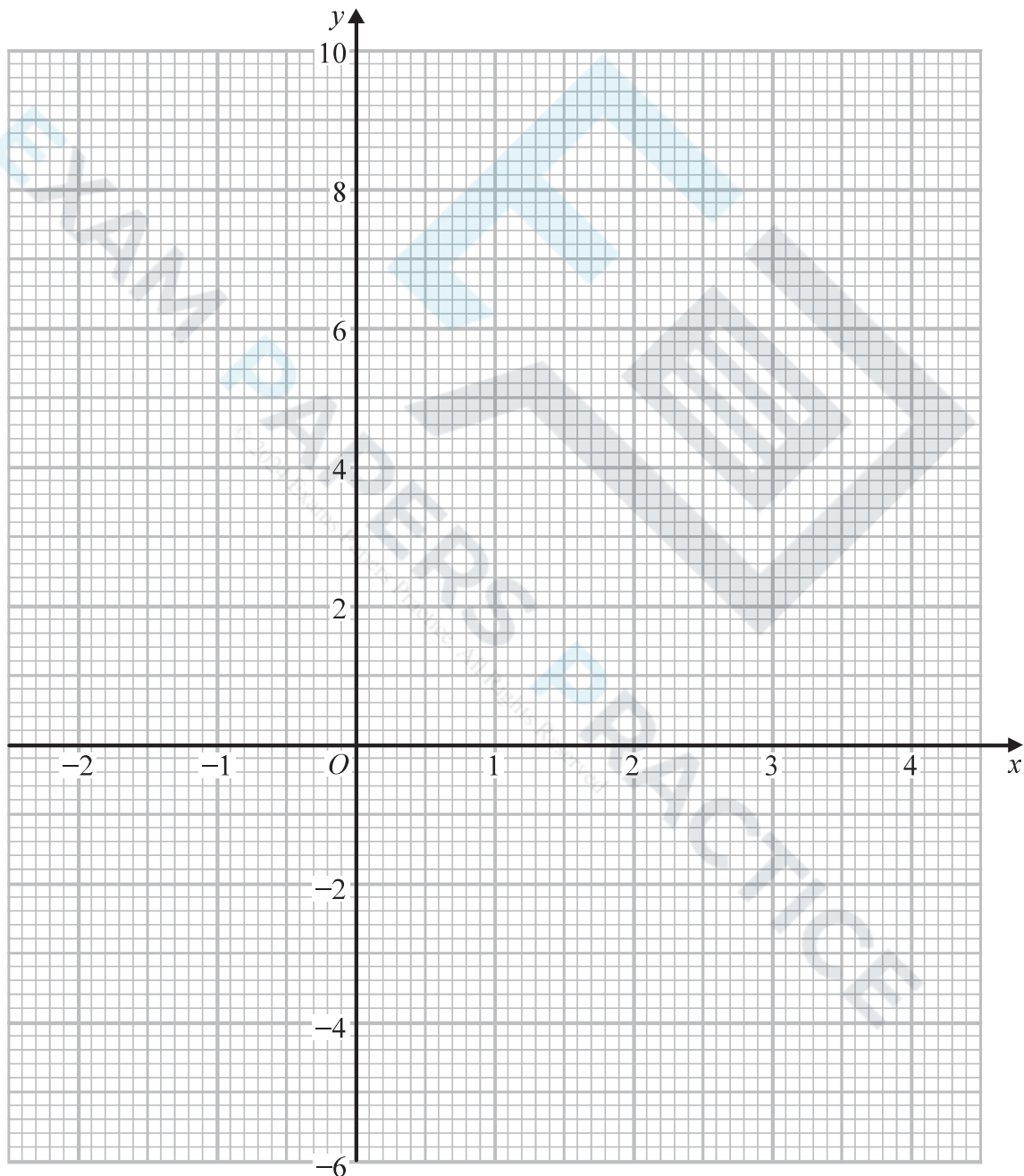


Find an equation for **L**.

5 (a) Complete the table of values for $y = x^2 - 3x - 1$

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

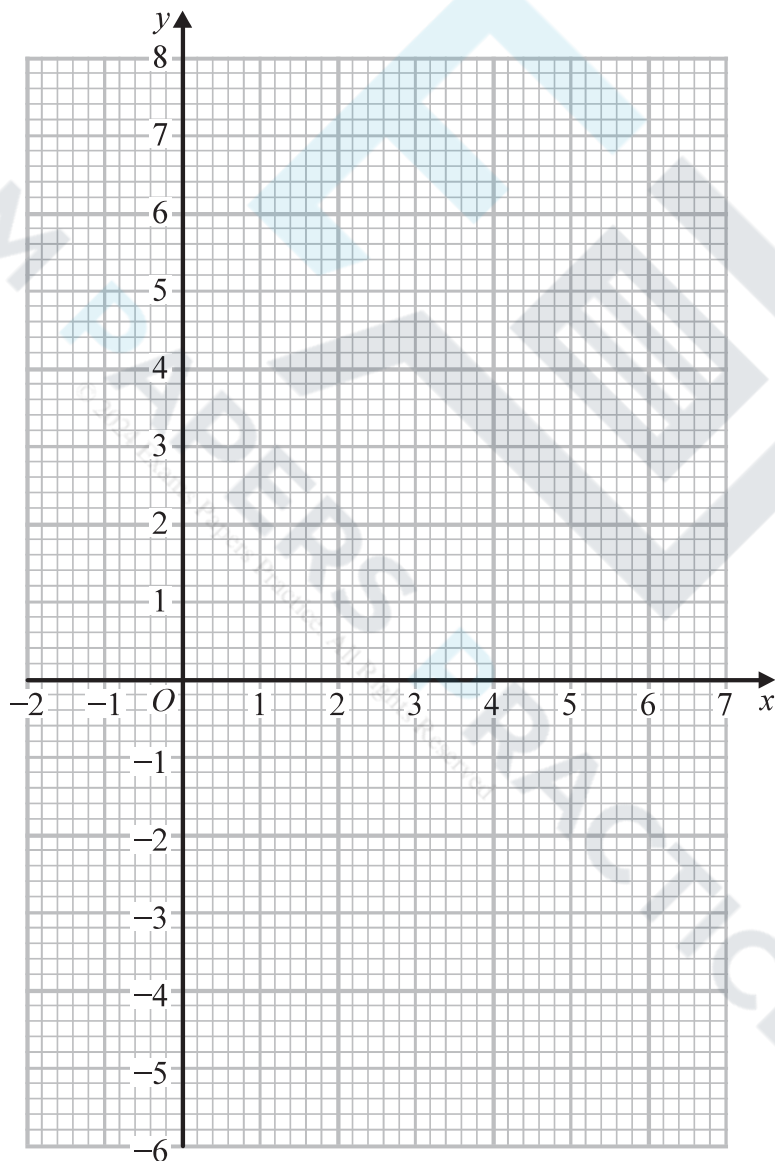
(b) On the grid, draw the graph of $y = x^2 - 3x - 1$ for all values of x from -2 to 4



6 (a) Complete the table of values for $y = 1 + 5x - x^2$

x	-1	0	1	2	3	4	5	6
y		1		7	7		1	

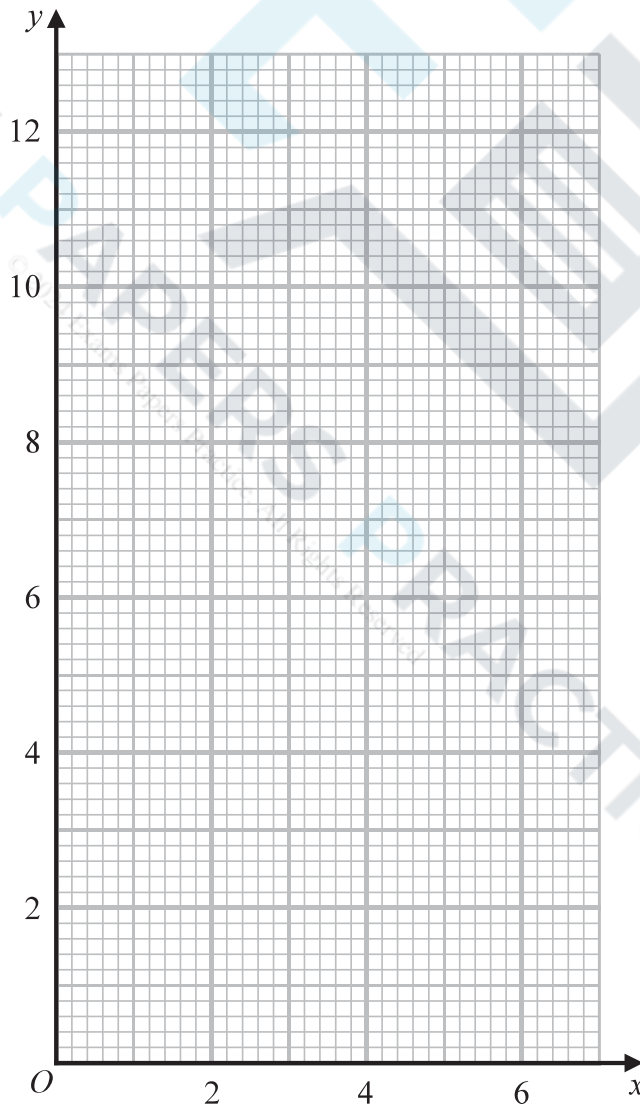
(b) On the grid, draw the graph of $y = 1 + 5x - x^2$ for values of x from -1 to 6



7 (a) Complete the table of values for $y = \frac{6}{x}$

x	0.5	1	2	3	4	5	6
y		6		2			1

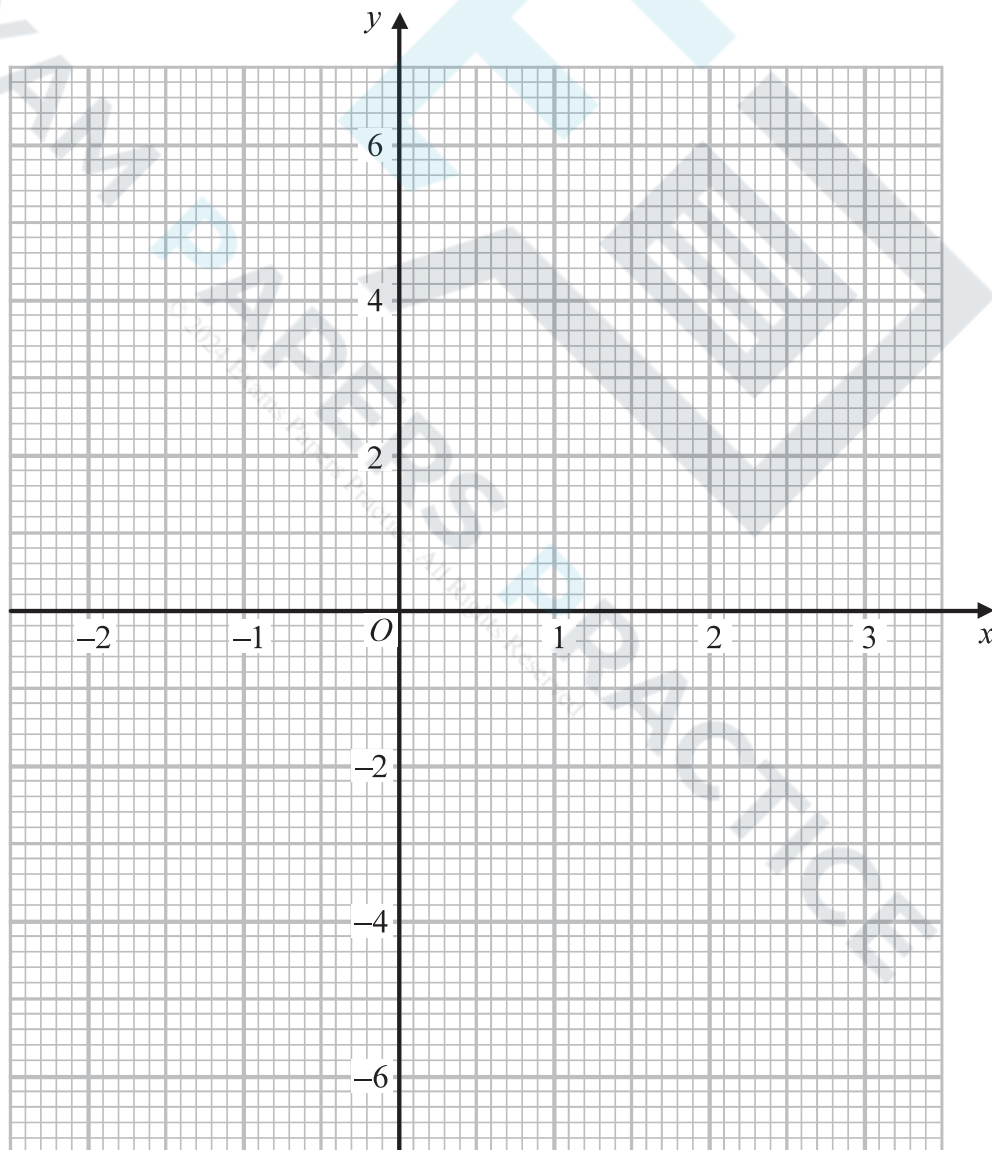
(b) On the grid, draw the graph of $y = \frac{6}{x}$ for $0.5 \leq x \leq 6$



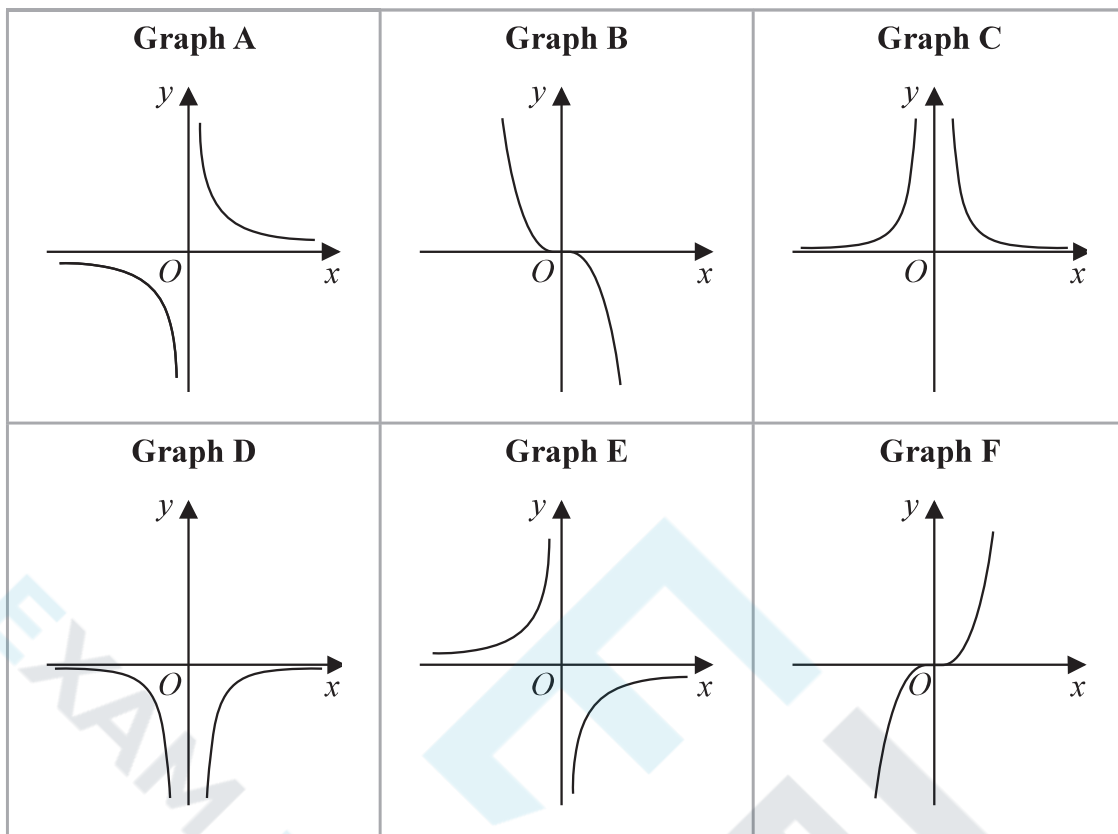
8 (a) Complete the table of values for $y = x^3 - 2x^2 - 3x + 4$

x	-2	-1	-0.5	0	1	1.5	2	3
y			4.875	4		-1.625		

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



9 Here are six graphs.



Complete the table below with the letter of the graph that could represent each given equation.

Write your answers on the dotted lines.

Equation	Graph
$y = \frac{2}{x^2}$
$y = -\frac{1}{2}x^3$
$y = -\frac{5}{x}$