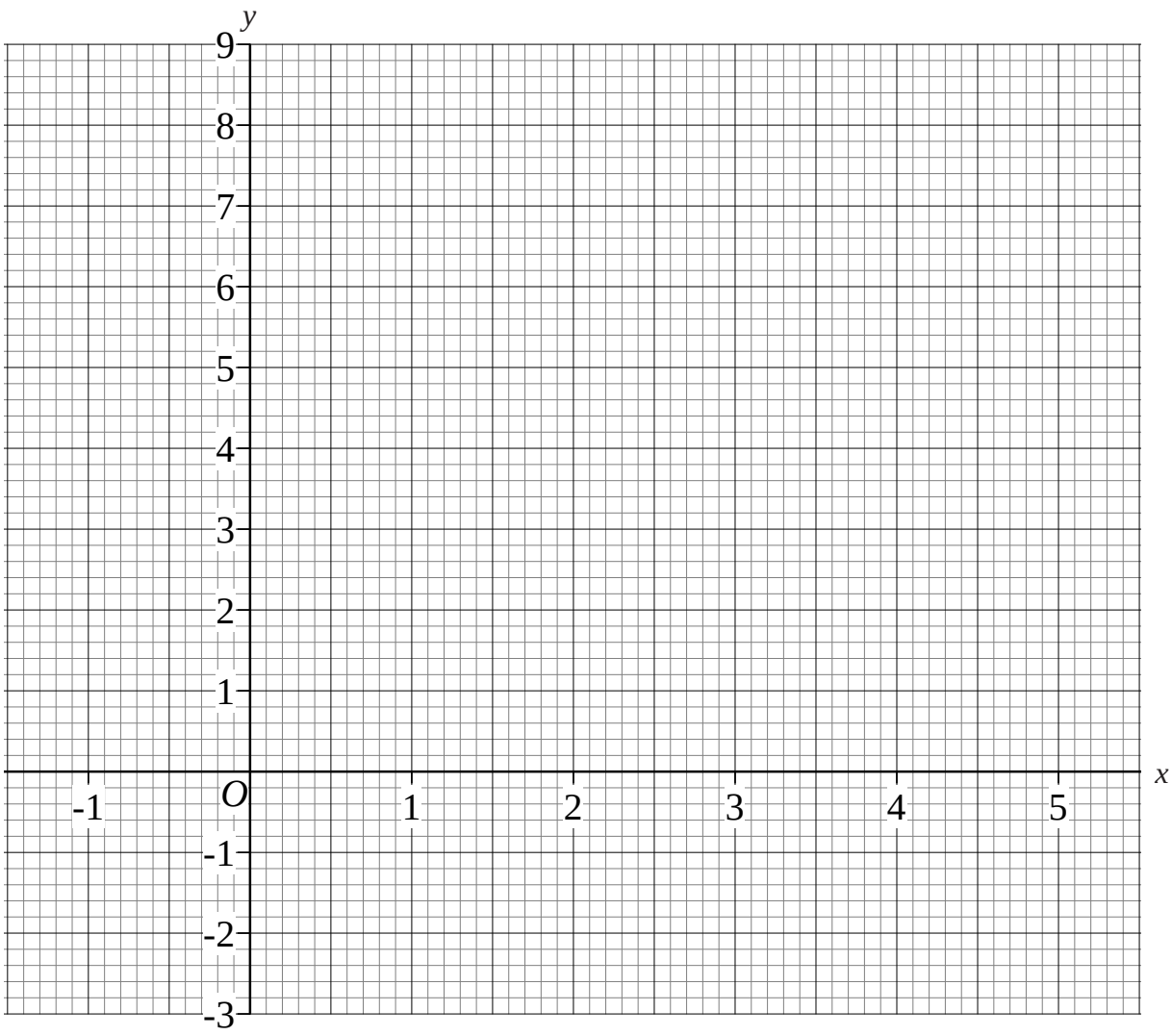
Drawing Quadratic Graphs

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

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

On the grid, draw the graph of $y = x^2 - 4x + 3$

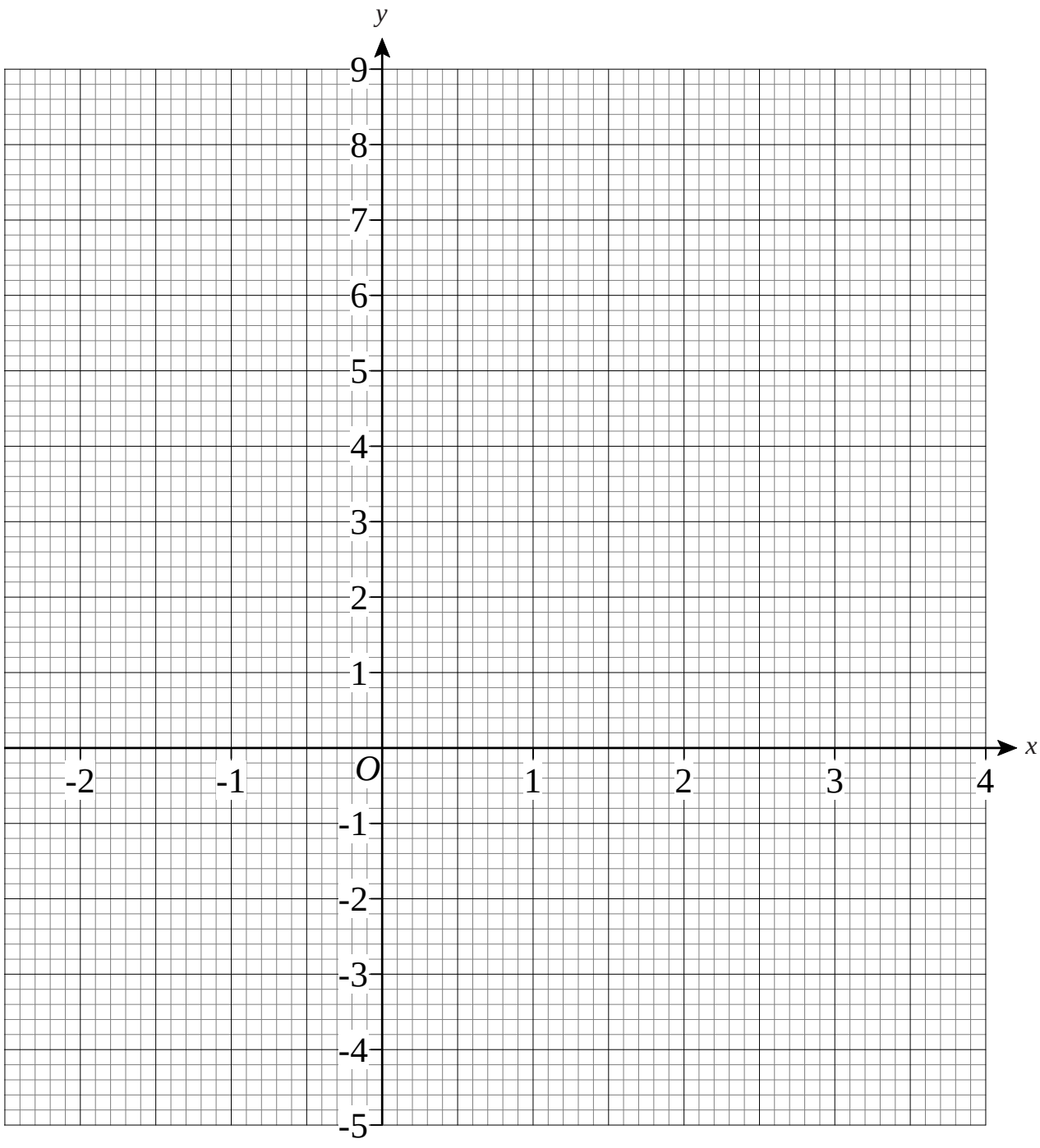


Drawing Quadratic Graphs

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

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

b) On the grid, draw the graph of $y = x^2 - 3x - 2$



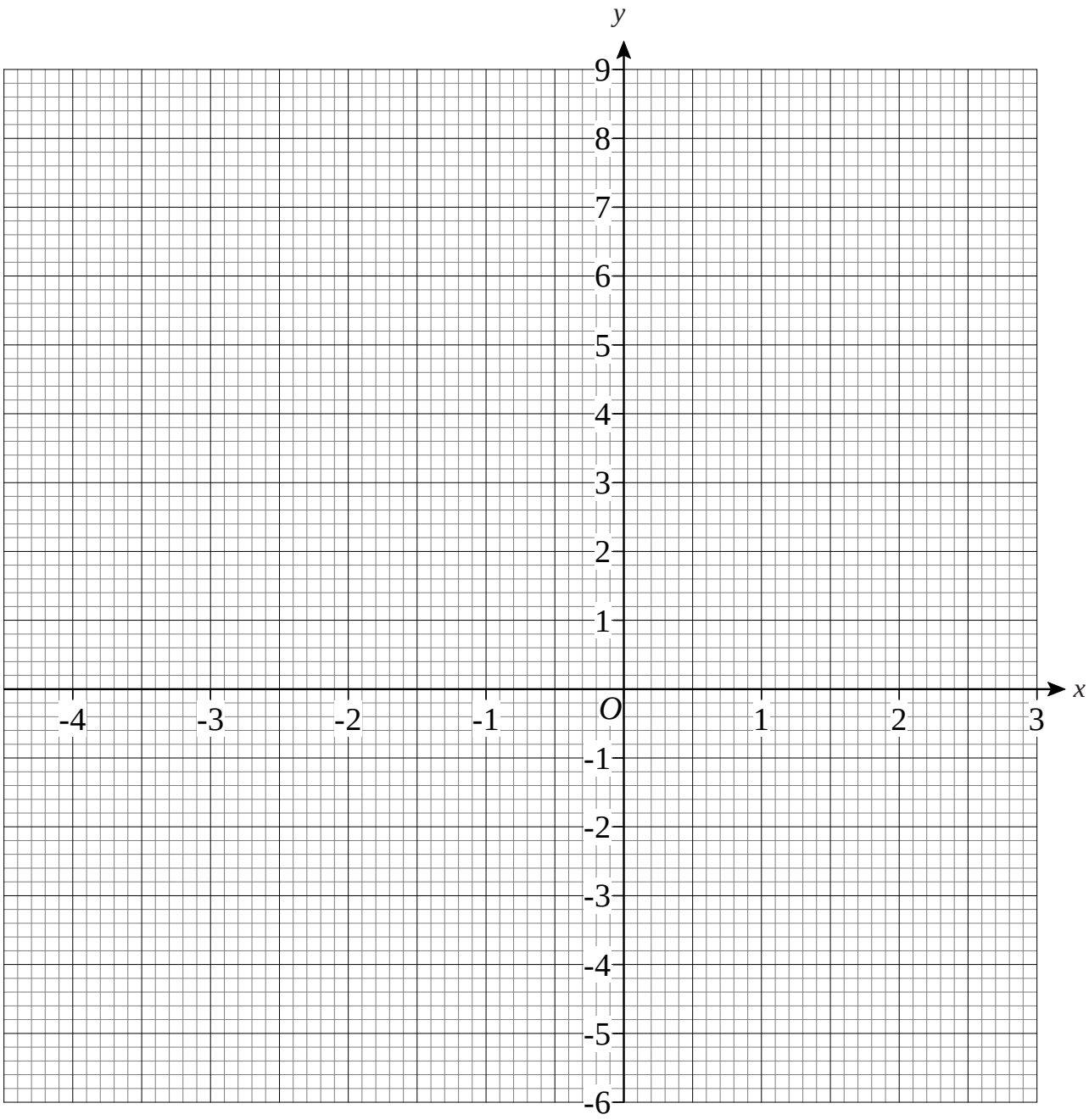
c) Use your graph to estimate the values of x when $y = -1$

Drawing Quadratic Graphs

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

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

b) On the grid, draw the graph of $y = x^2 + x - 4$

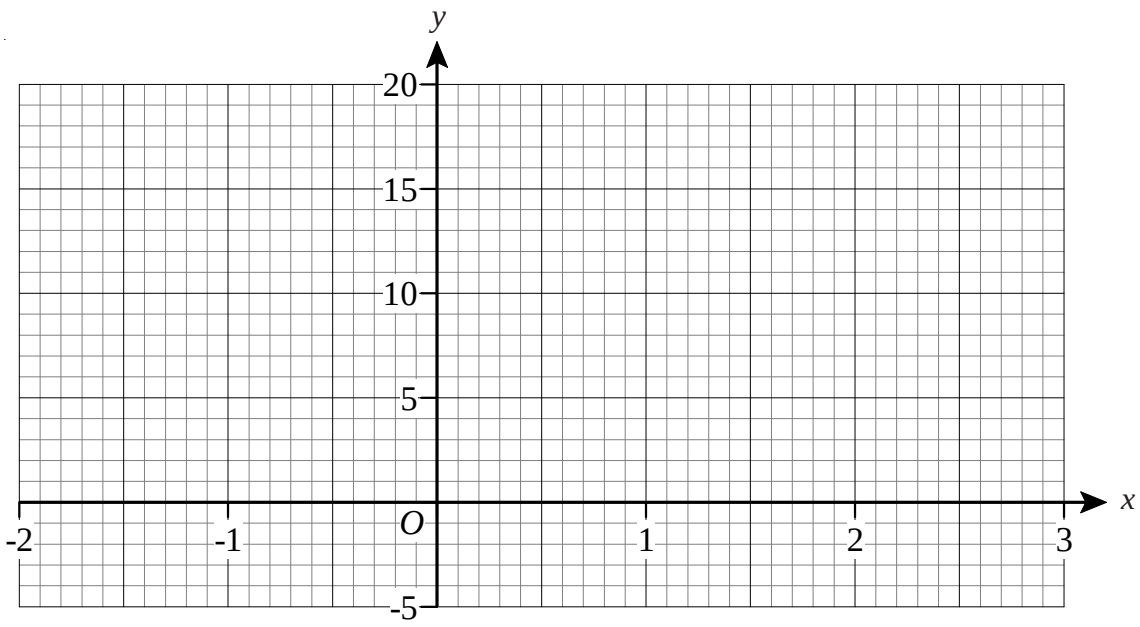


Drawing Quadratic Graphs

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

x	-2	-1	0	1	2	3
y	14		0			9

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



c) Use the graph to find the value of y when $x = -1.5$

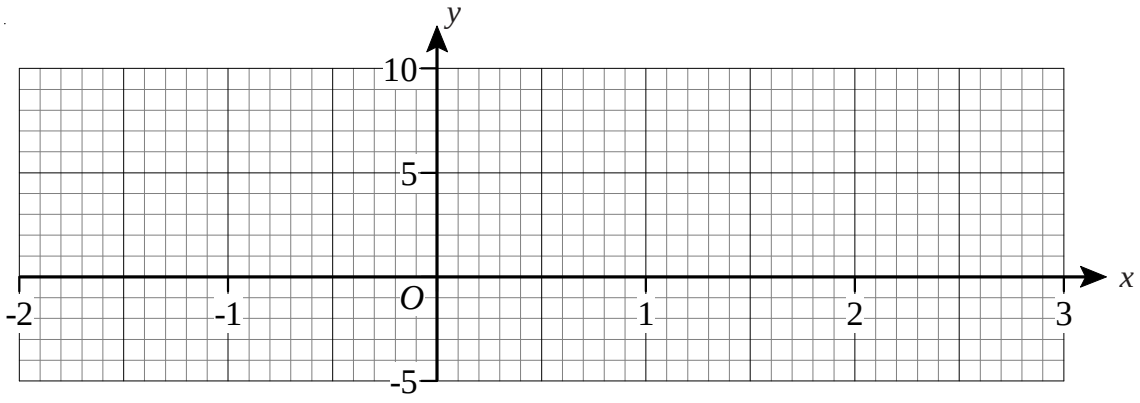
d) Use the graph to find the values of x when $y = 4$

---

2) a) Complete the table of values for $y = x^2 - 2x$

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

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

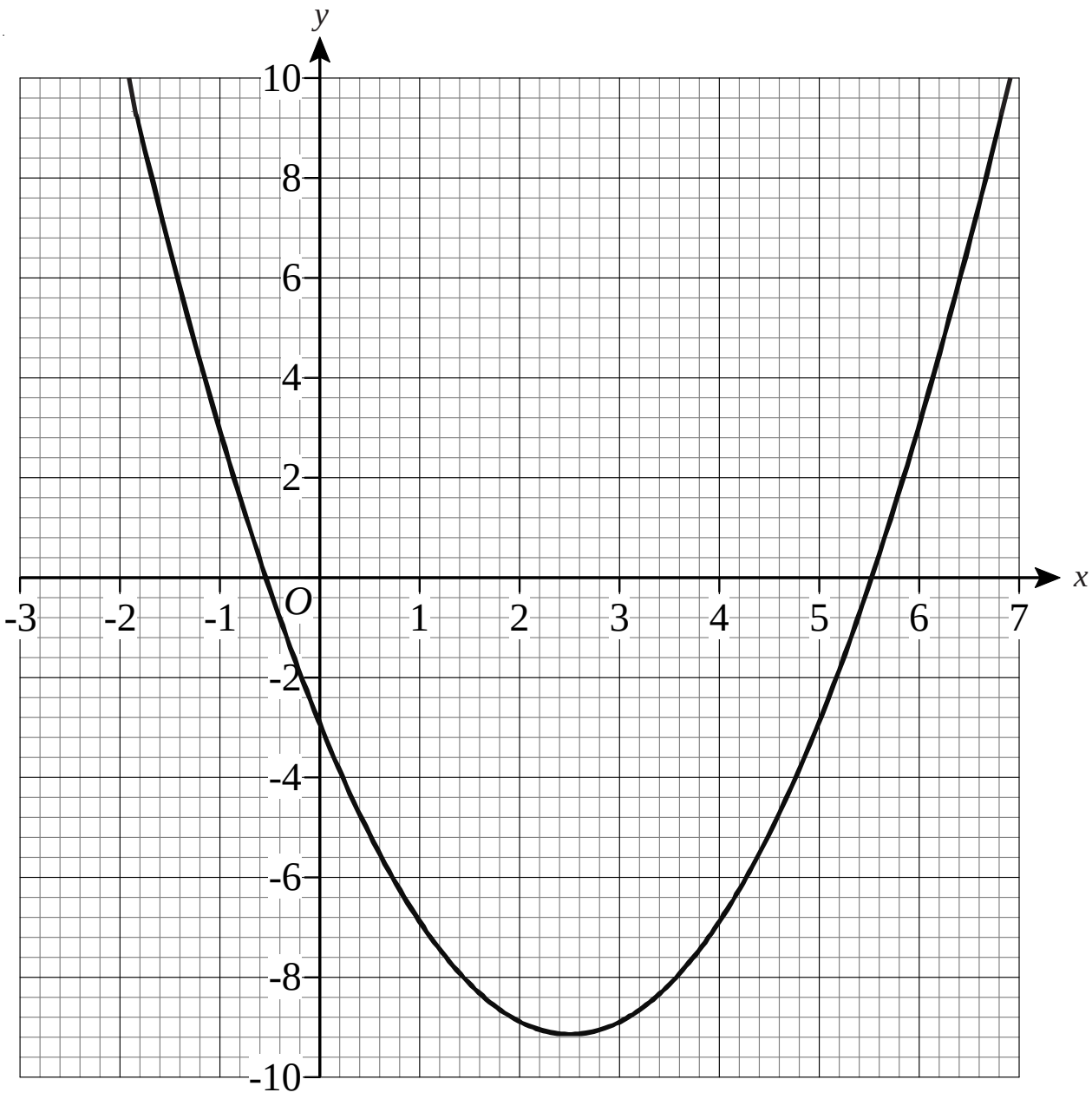


c) (i) On the same axes draw the straight line $y = 2.5$

(ii) Write down the values of x for which $x^2 - 2x = 2.5$

Drawing Quadratic Graphs

1) The diagram shows the graph of $y = x^2 - 5x - 3$



a) Use the graph to find estimates for the solutions of

(i) $x^2 - 5x - 3 = 0$

(ii) $x^2 - 5x - 3 = 6$

b) Use the graph to find estimates for the solutions of the simultaneous equations

$y = x^2 - 5x - 3$

$y = x - 4$