

# Drawing Quadratic Graphs

## Question Paper

Level	GCSE
Subject	Maths
Exam Board	Edexcel GCSE
Topic	Drawing Quadratic Graphs
Grade Level	Grade 5
Booklet	Question Paper

**Time Allowed:** 36 minutes

**Score:** /30

**Percentage:** /100

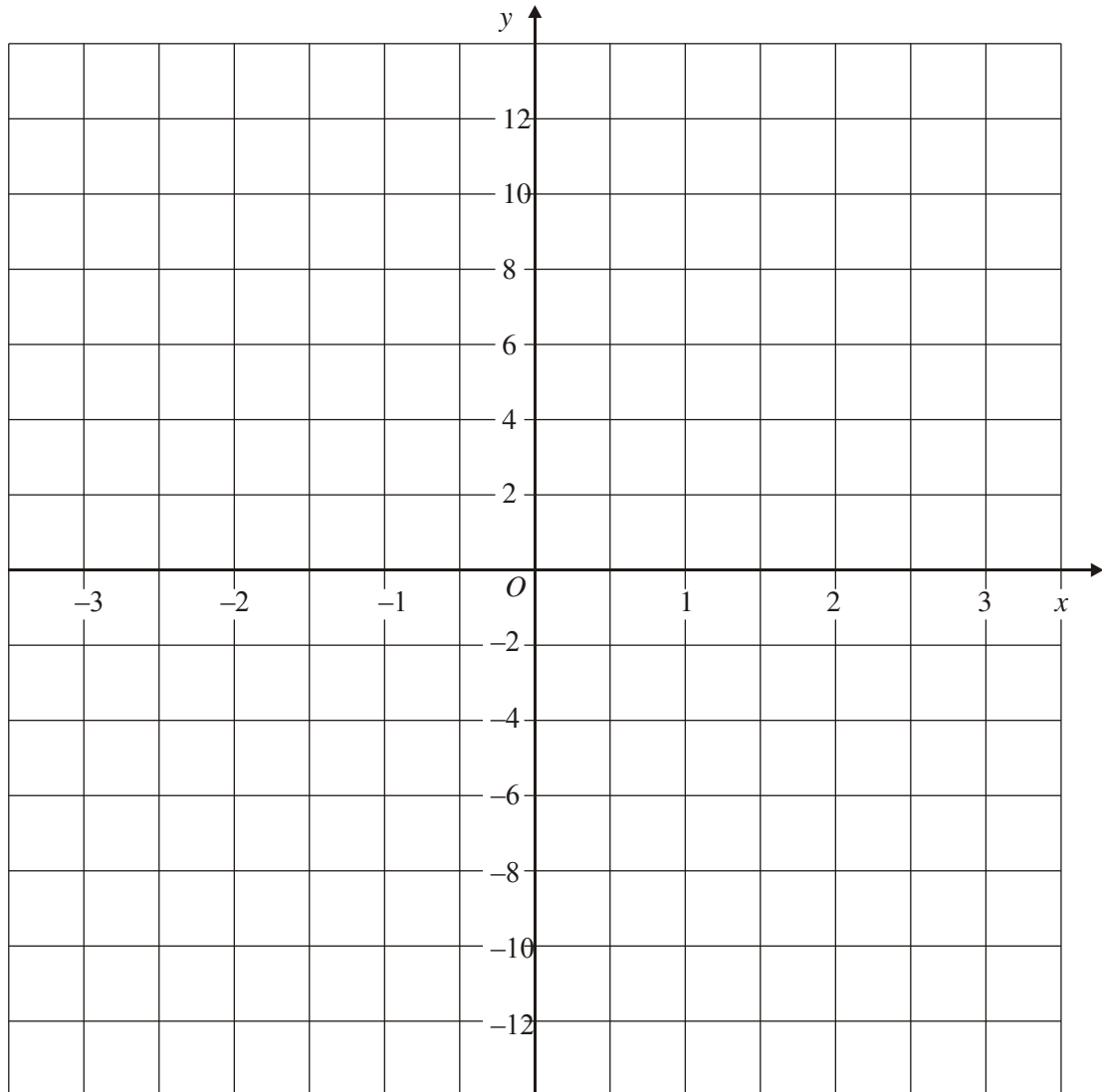
**Grade Boundaries:**

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

$x$	-3	-2	-1	0	1	2	3
$y$	6	2		0		6	

(2)

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



(2)

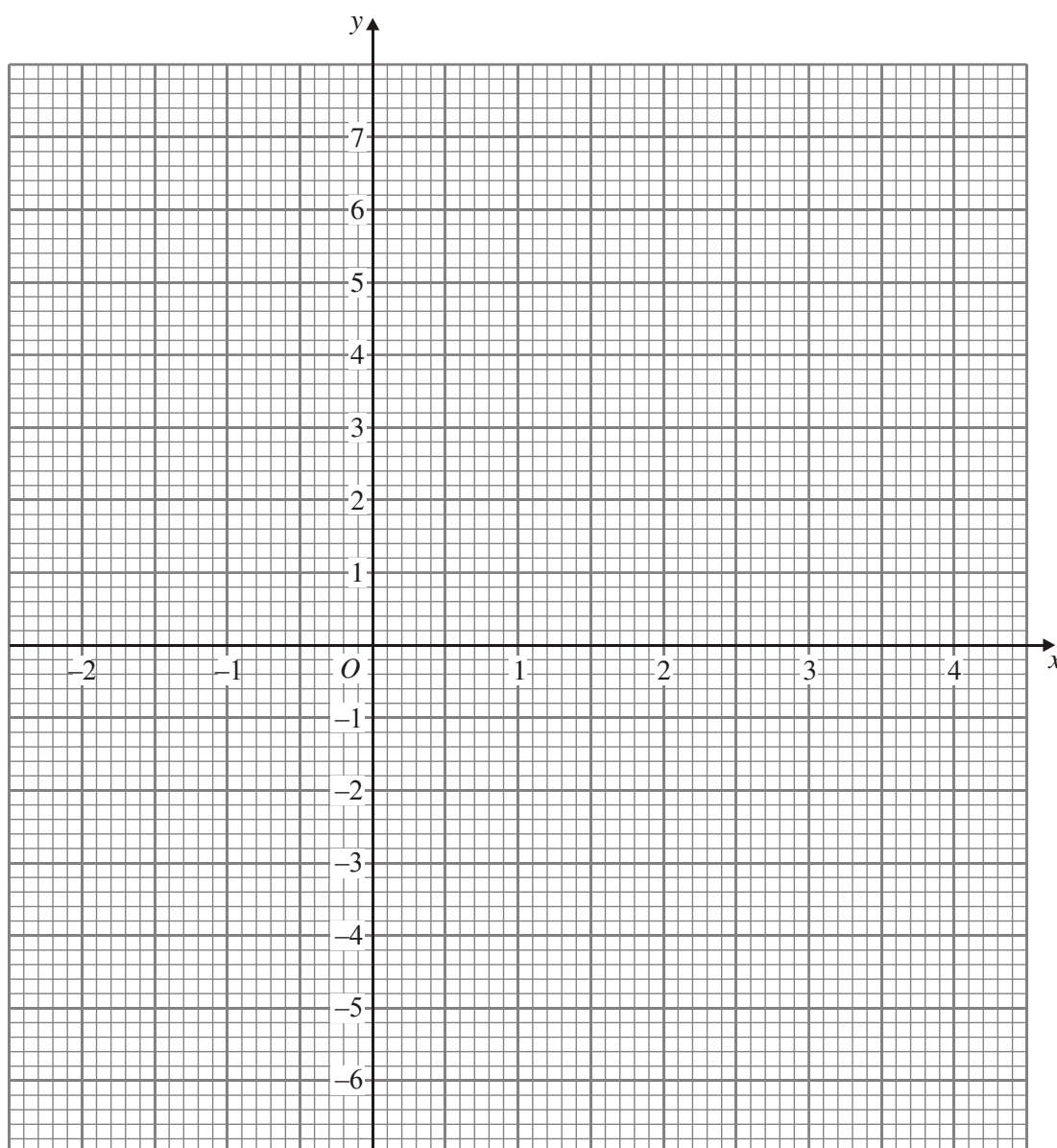
(Total 4 marks)

2. (a) Complete the table for  $y = x^2 - 2x - 4$

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

(2)

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



(2)

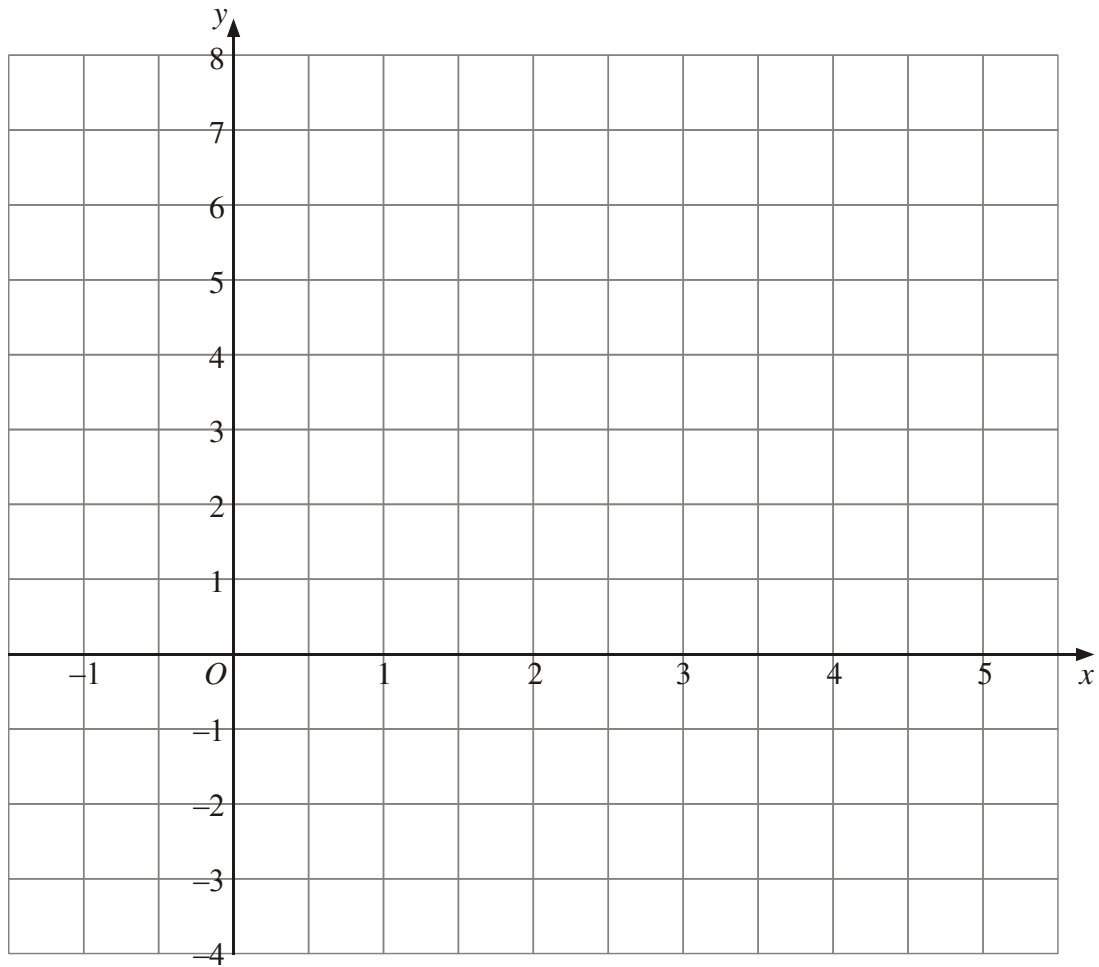
(Total 4 marks)

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

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

(2)

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



(2)

(Total 4 marks)

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

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

(2)

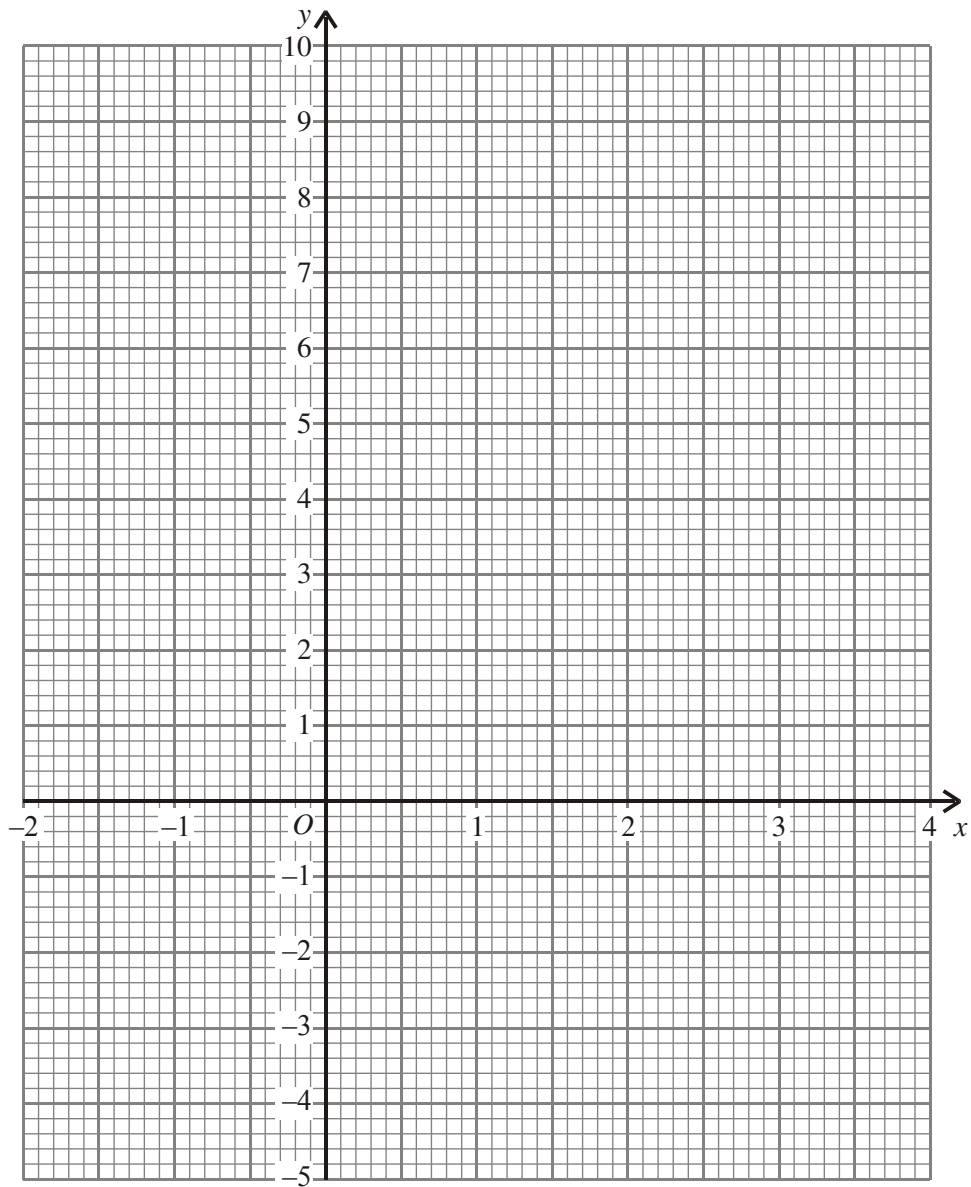
- (b) On the grid below, draw the graph of  $y = x^2 - 3x - 1$ .

(2)

- (c) Use your graph to find an estimate for the minimum value of  $y$ .

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(1)



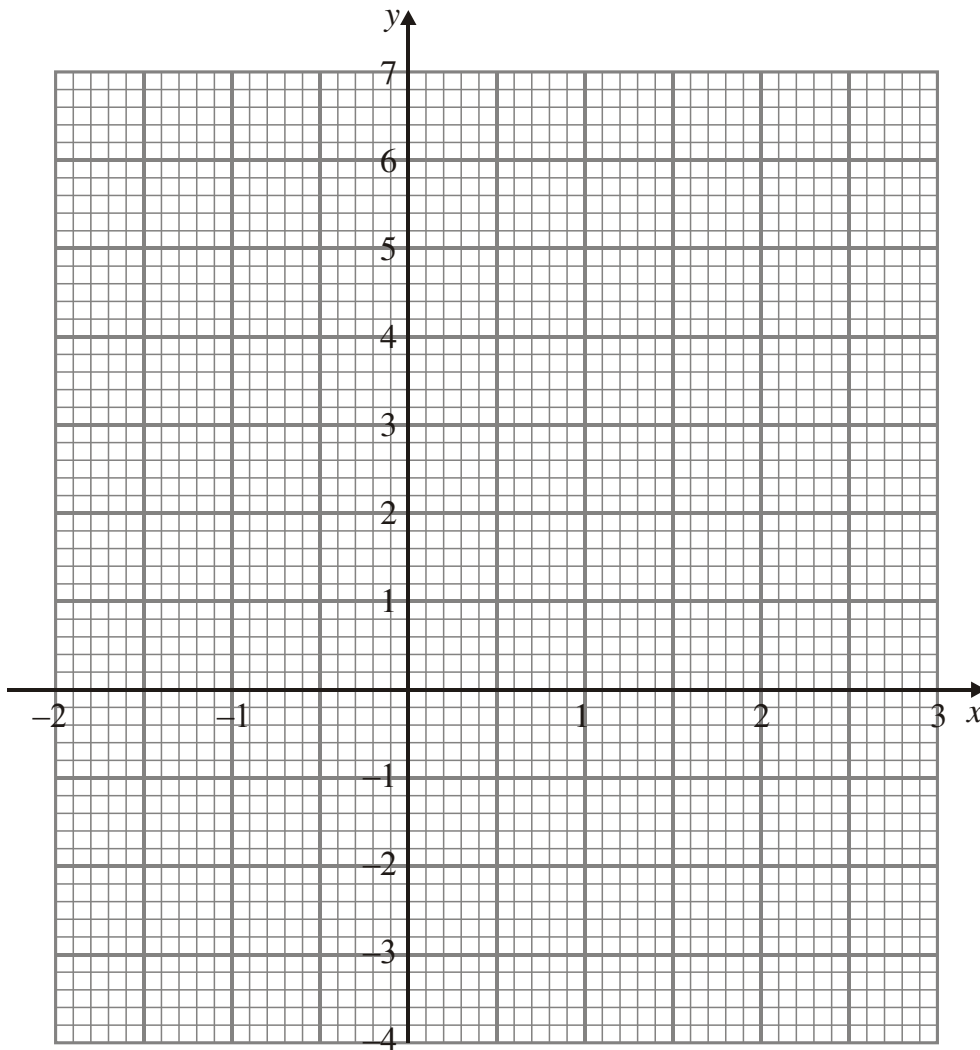
(Total 5 marks)

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

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

(2)

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



(2)  
(Total 4 marks)

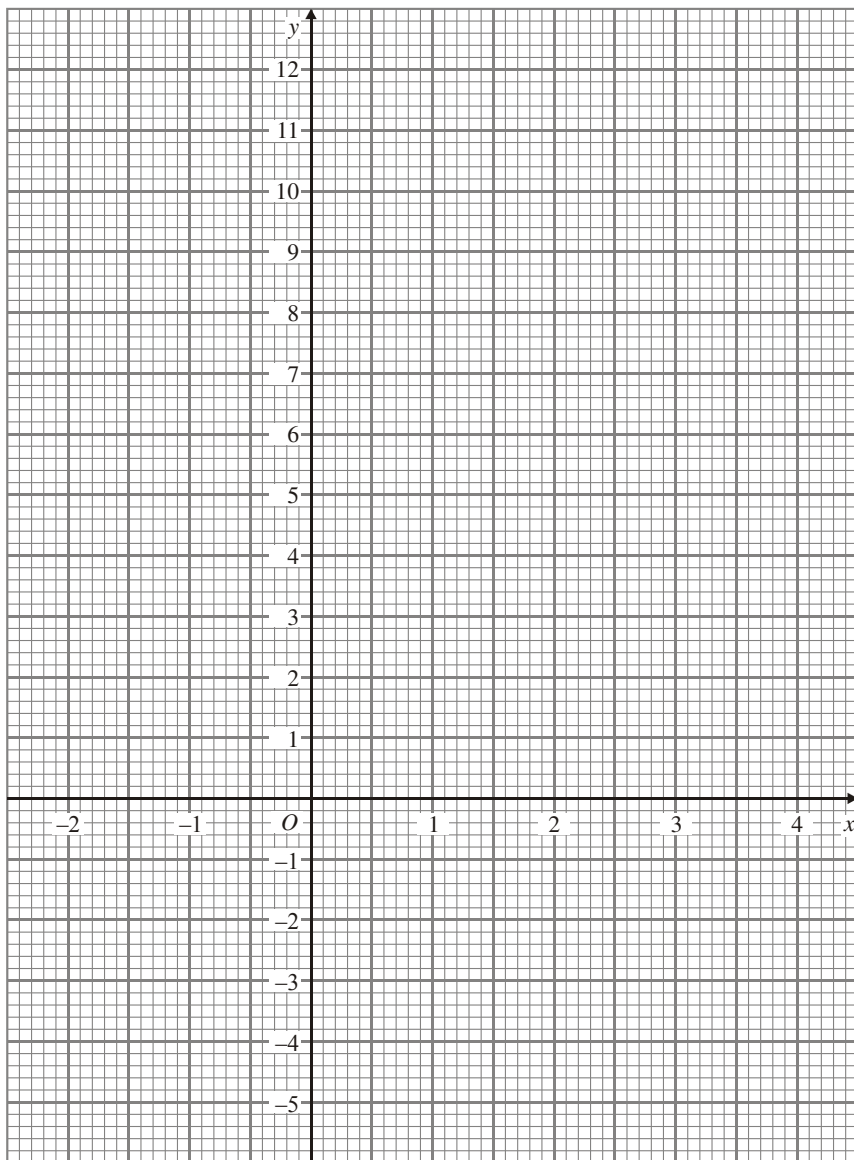
6. (a) Complete the table for  $y = x^2 - 3x + 1$

$x$	-2	-1	0	1	2	3	4
$y$	11		1	-1		1	5

(2)

- (b) On the grid below, draw the graph of  $y = x^2 - 3x + 1$

(2)



- (c) Use your graph to find an estimate for the minimum value of  $y$ .

$y = \dots\dots\dots$

(1)

(Total 5 marks)

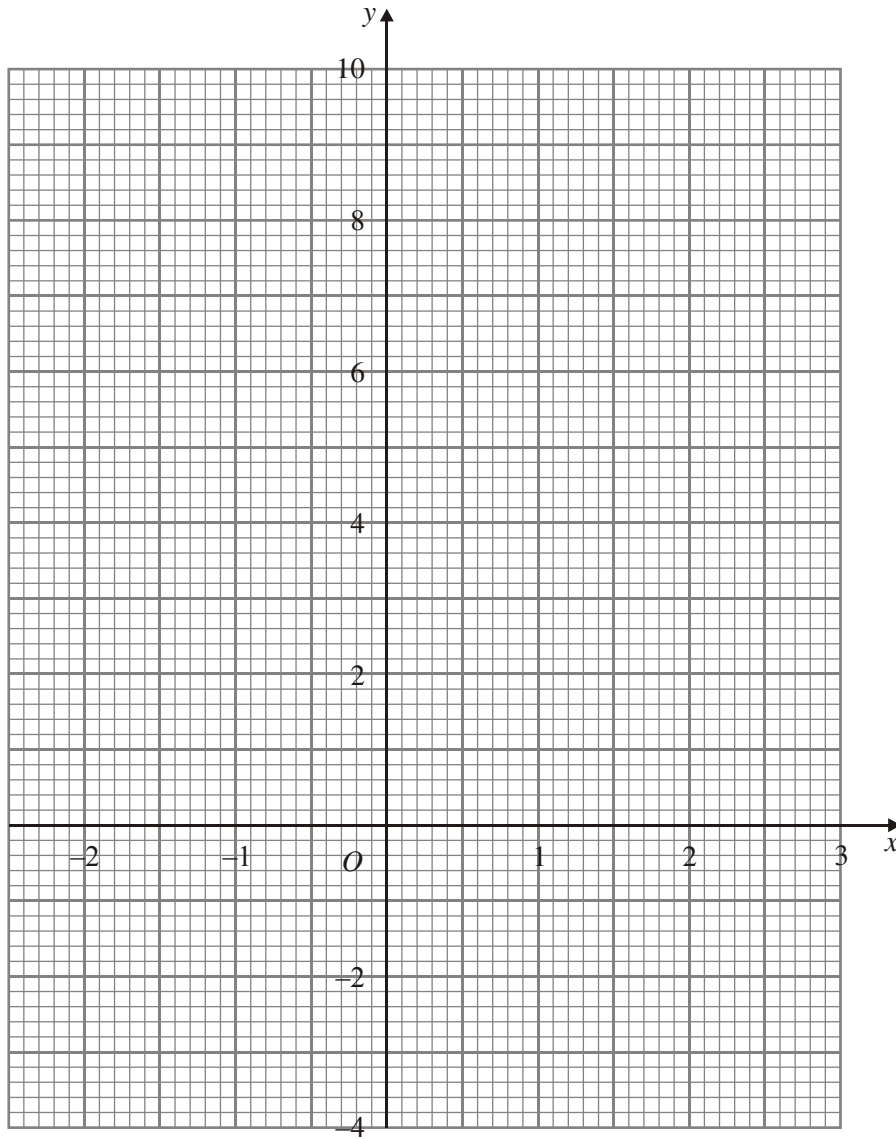
7. (a) Complete the table of values for  $y = x^2 - 3x - 1$

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

(2)

- (b) On the grid, draw the graph of  $y = x^2 - 3x - 1$

(2)



(Total 4 marks)