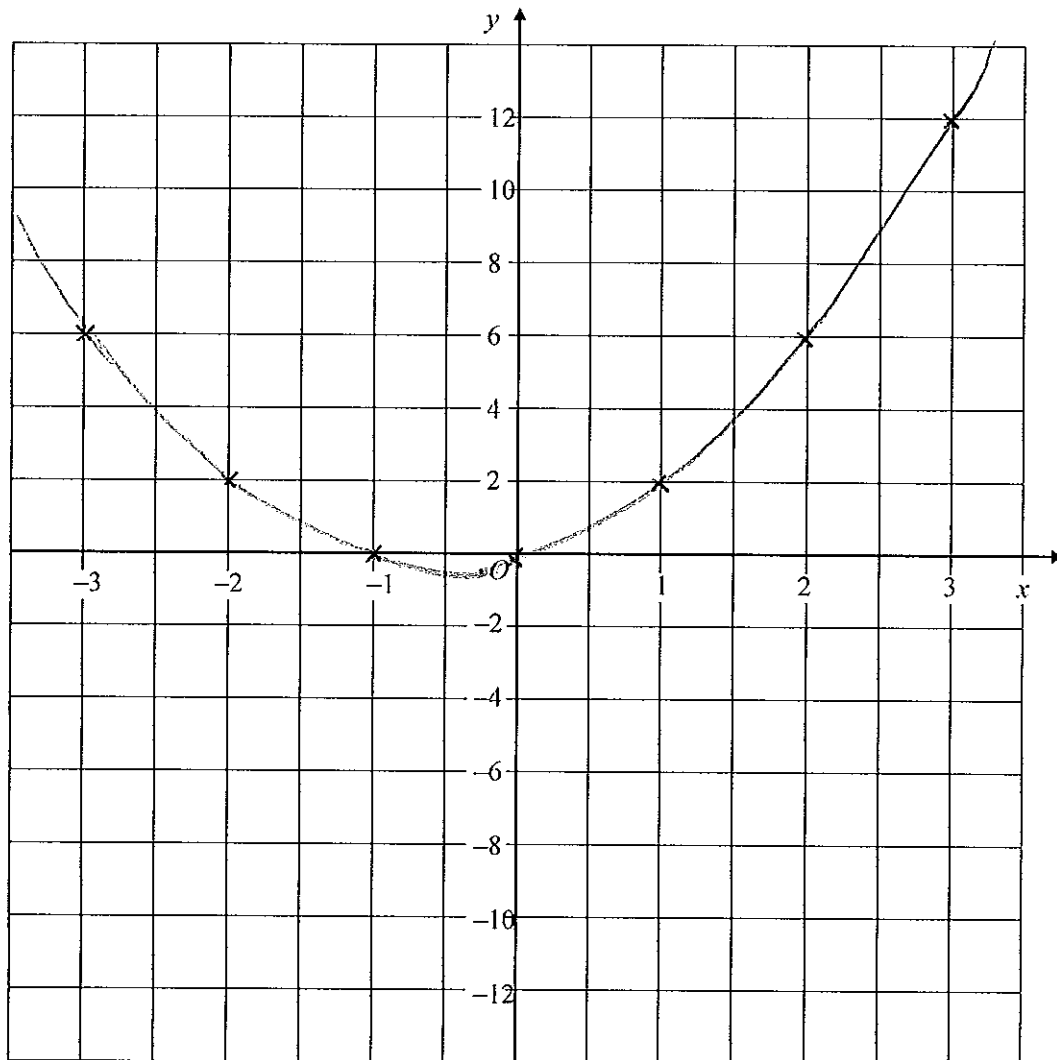


1. (a) Complete the table of values for  $y = x^2 + x$ .

x	-3	-2	-1	0	1	2	3
y	6	2	0	0	2	6	12

(2)

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



(2)

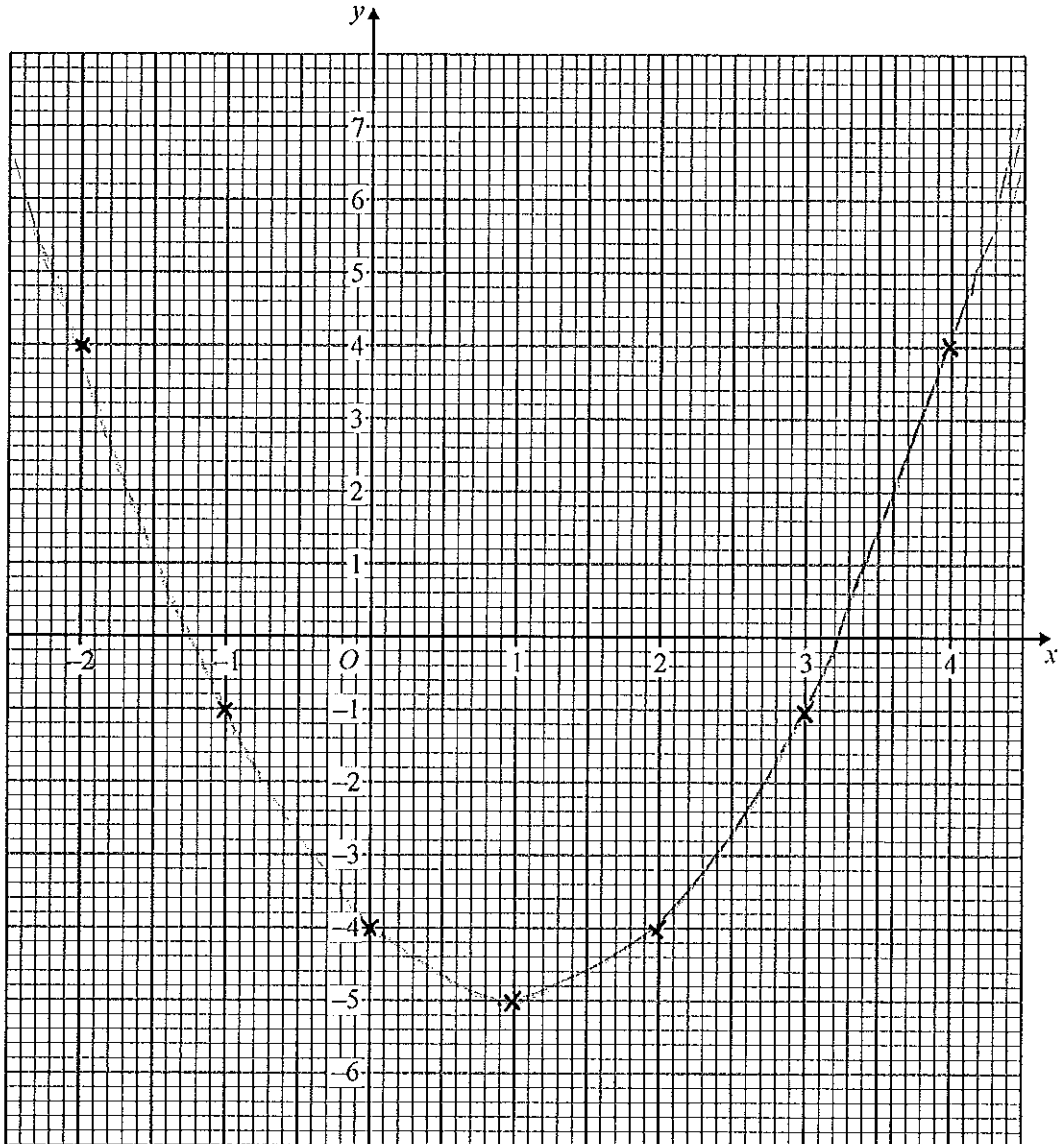
(Total 4 marks)

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

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

(2)

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



(2)

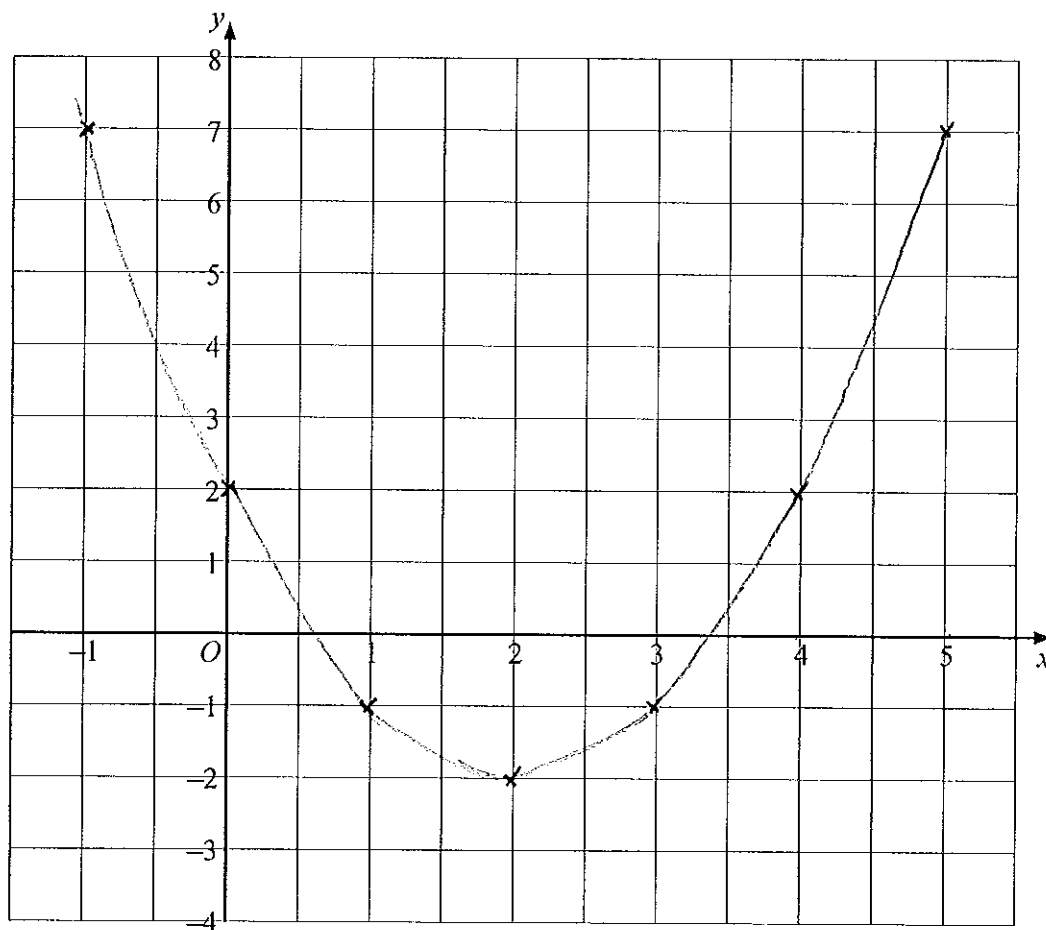
(Total 4 marks)

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

x	-1	0	1	2	3	4	5
y	7	2	-1	-2	-1	2	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	9	3	-1	-3	-3	-1	3

(2)

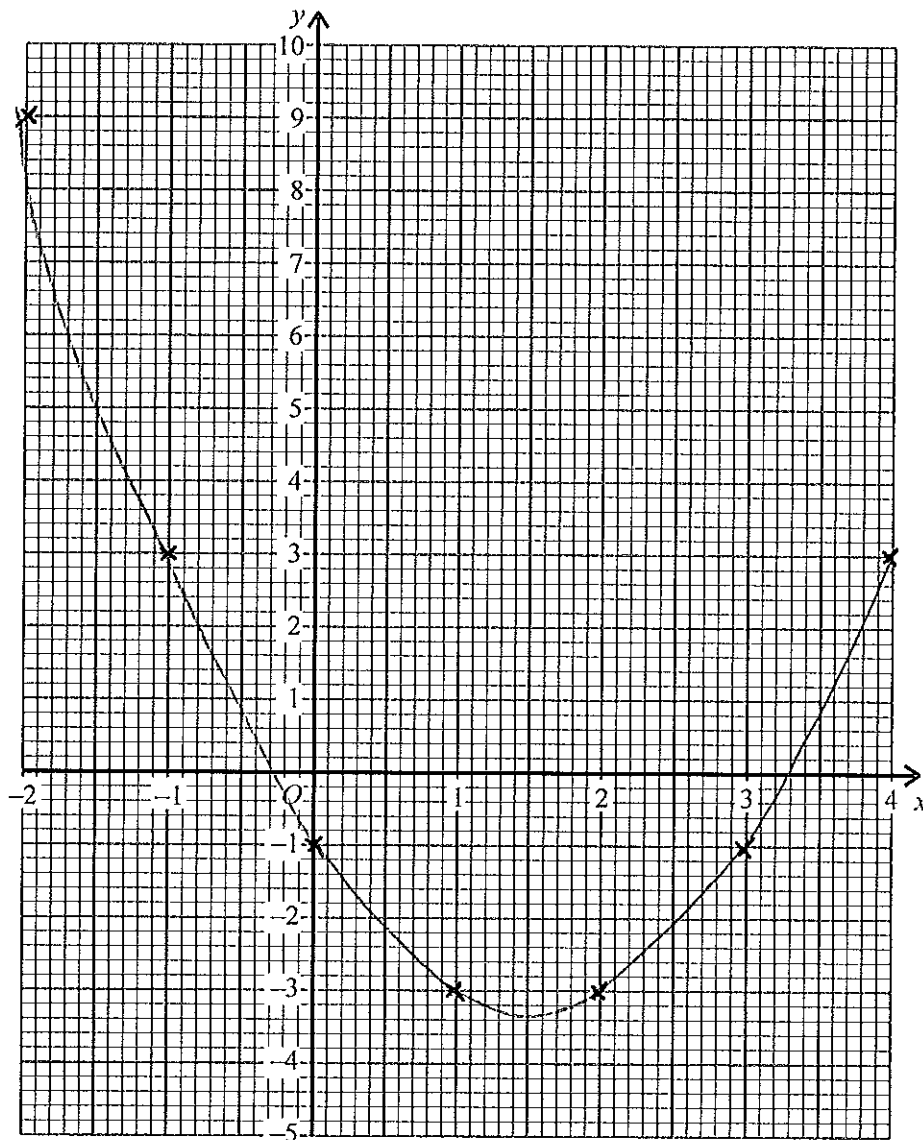
- (b) On the grid below, draw the graph of  $y = x^2 - 3x - 1$ .

(2)

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

.....

(1)



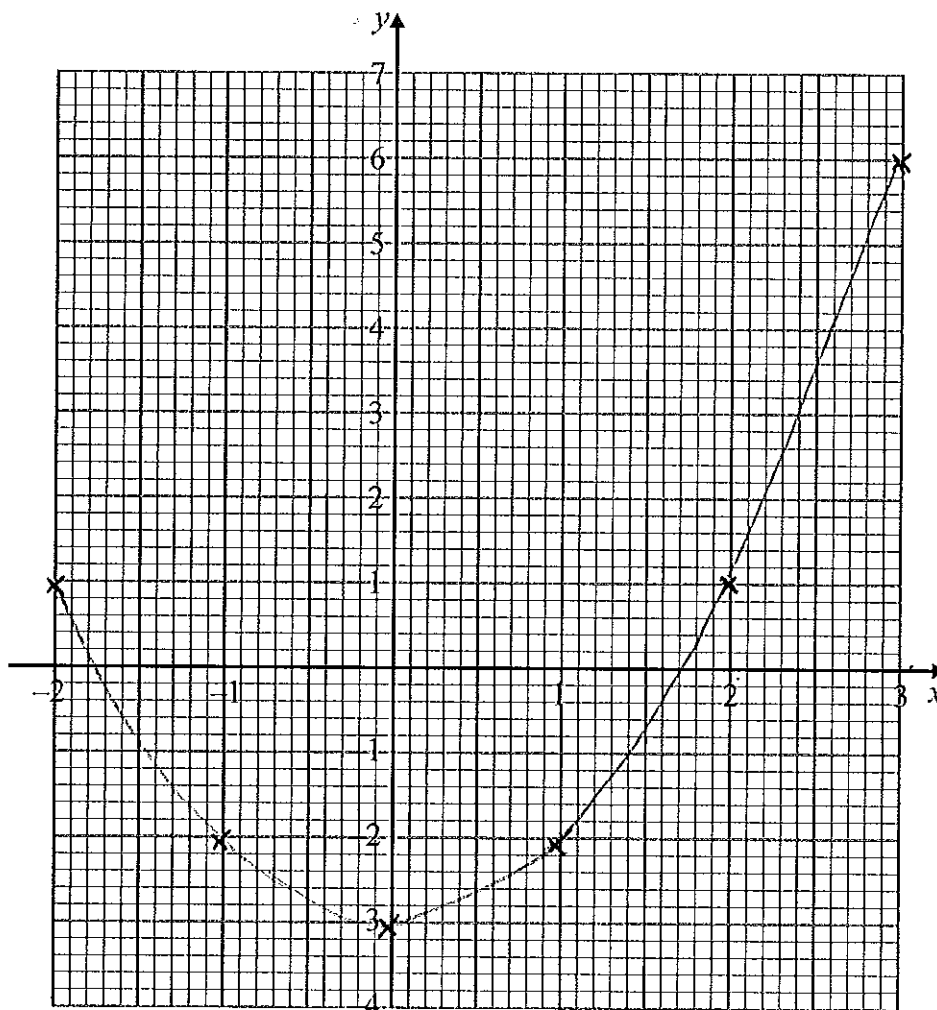
(Total 5 marks)

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

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

(2)

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



(2)  
(Total 4 marks)

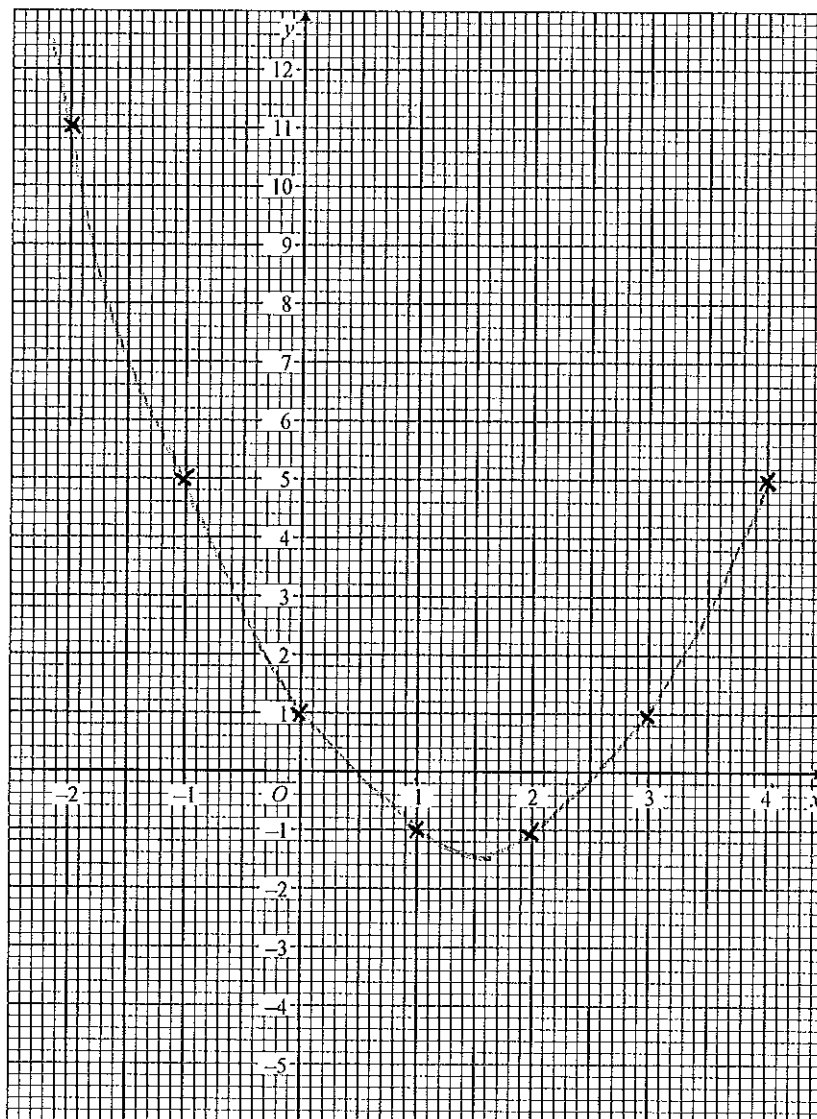
6. (a) Complete the table for  $y = x^2 - 3x + 1$

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

$$y = \dots - 1.4 \dots$$

(1)

$$(-1.25)$$

(Total 5 marks)

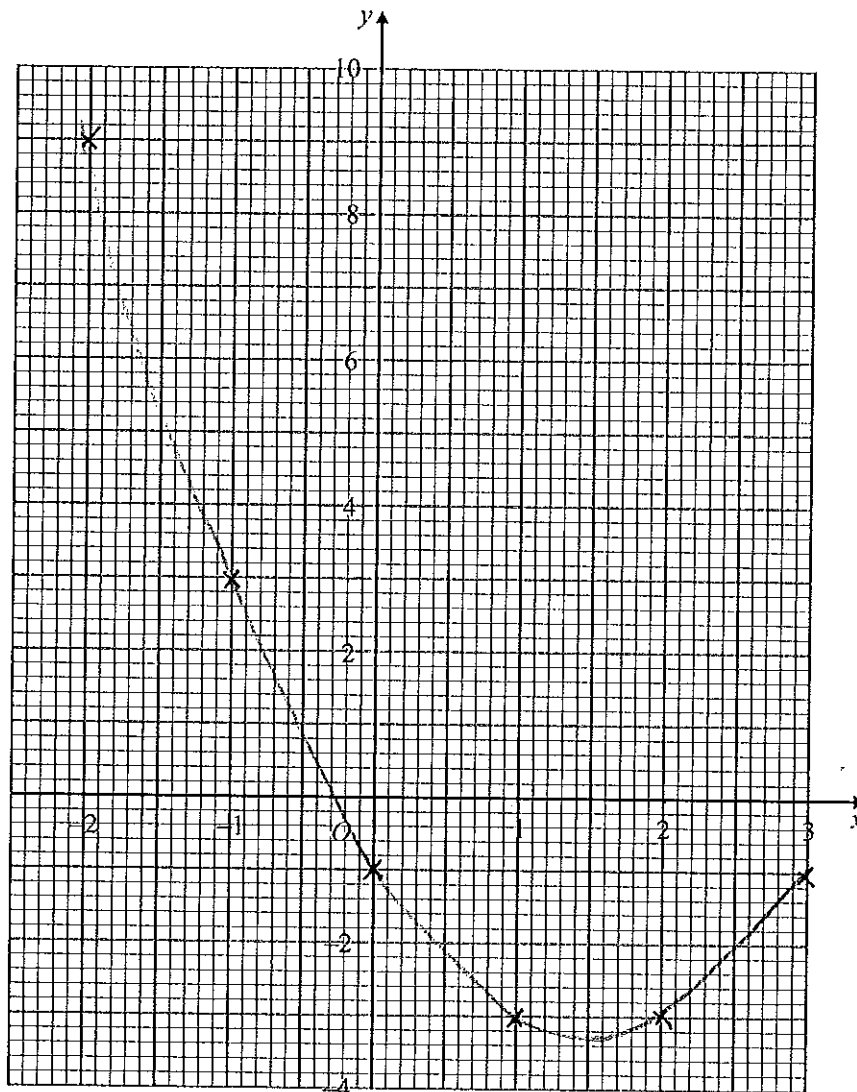
7. (a) Complete the table of values for  $y = x^2 - 3x - 1$

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

(2)

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

(2)



(Total 4 marks)