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

X	-3	-2	-1	0	1	2
$y = x^3 + 2$	25					10

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

(c)	Use your graph to find					
i	(i) an estimate of the solution of the equation $x^3 + 2 = 0$					
		<i>x</i> =				
	(ii) an estimate of the solution of the equation $x^3 + 2 = 8$					
		<i>x</i> = (3)				
(d)	) By drawing a suitable straight line on the grid find estimates of the solutions of the equation $x^3 - 4x + 2 = 0$					
	Label clearly the straight line you have drawn.					
		(3)				

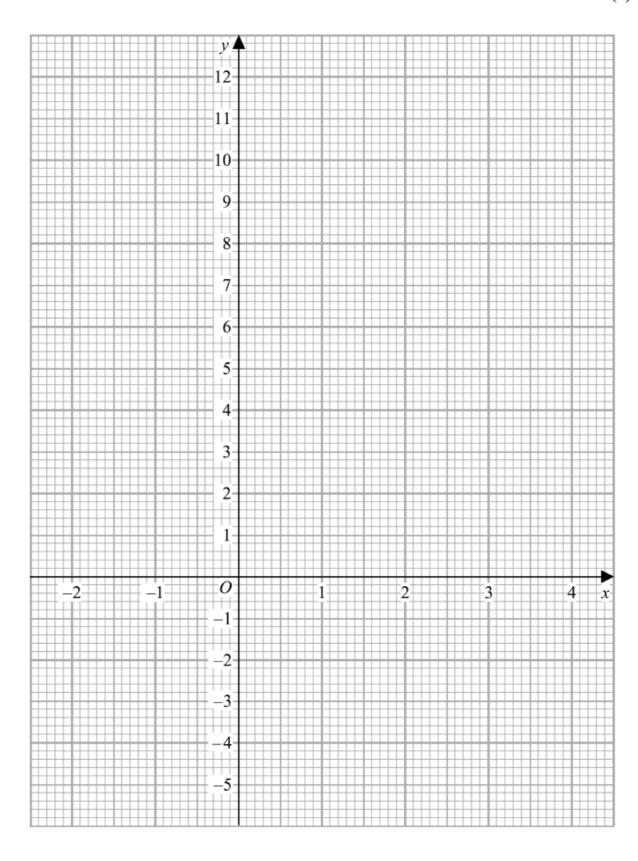
7. (a) Complete the table for  $y = x^2 - 3x + 1$ 

х	-2	-1	0	1	2	3	4
У	11		1	-1		1	5

(2)

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

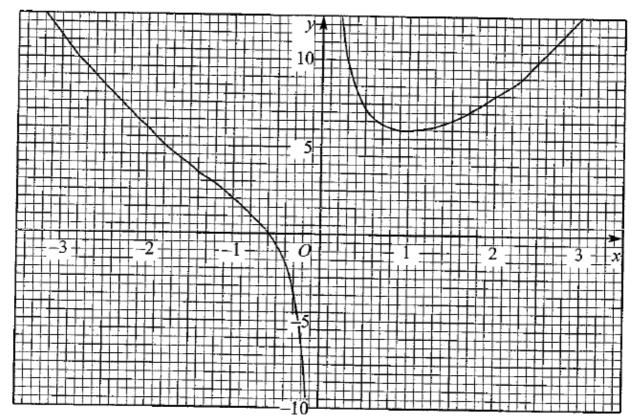
(2)



	<i>y</i> =	
	(1	
(d)	Use a graphical method to find estimates of the solutions to the equation	
	$x^2 - 3x + 1 = 2x - 4$	
	$x = \dots $ or $x = \dots$ (3)	

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

17. This diagram shows the graph of  $y = x^2 + 3 + \frac{2}{x}$ 



(a) By drawing a suitable straight line on the grid, find estimates of all the solutions of

$$x^2 - 5 + \frac{2}{x} = 0$$

Label your line with its equation.

Estimates are .....(3)

(b) Write down the equation of the line you would need to draw to solve the equation

$$x^2 - 3x + \frac{2}{x} = 0$$

using the given graph.

Equation of the line is