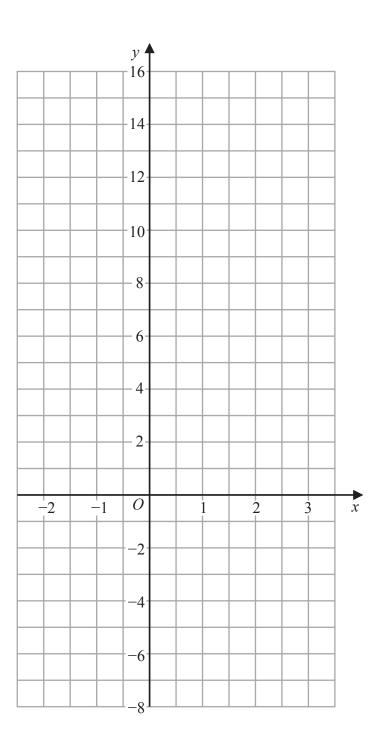
1

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



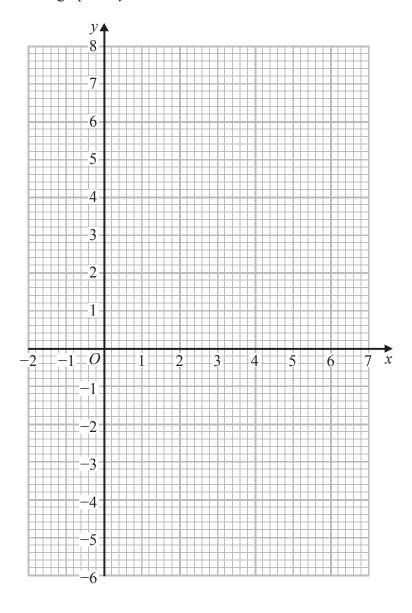
(Total for Question 1 is 3 marks)

2 (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	

(2)

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



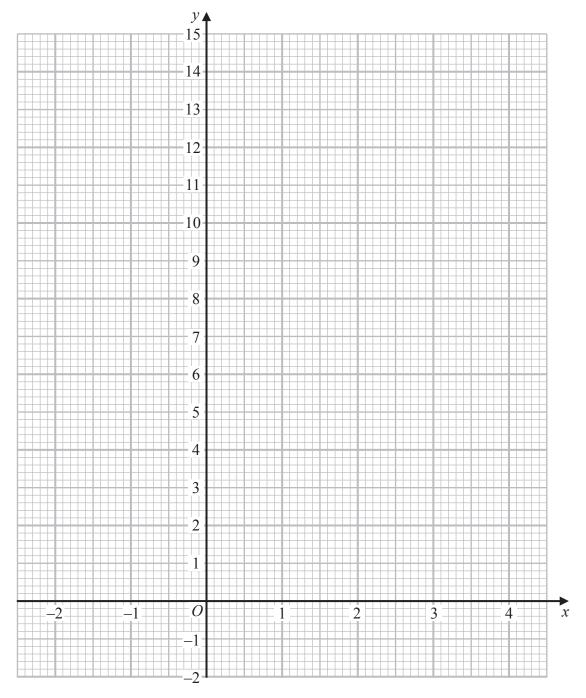
**(2)** 

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

x	-2	-1	0	1	2	3	4
у		8	3			0	

(2)

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



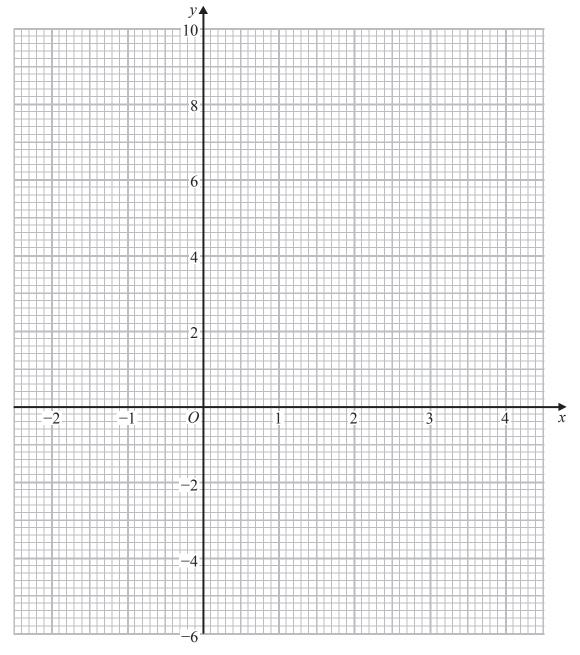
(2)

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

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

(2)

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



**(2)** 

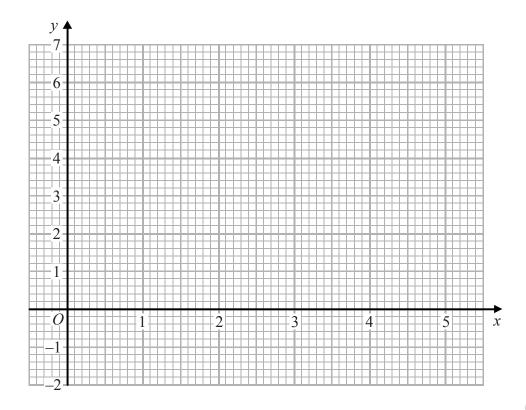
(Total for Question 4 is 4 marks)

5	(a)	Complete	tha	tabla	of w	عمداه	for $v =$	<b>v</b> 2	5×+	6
3	(a)	Complete	une	table	OI V	arues	y -	x	JX =	U

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

(1)

## (b) On the grid, draw the graph of $y = x^2 - 5x + 6$ for $0 \le x \le 5$



(2)

## (c) By drawing a suitable straight line on the grid, find estimates for the solutions of the equation

$$x^2 - 5x = x - 7$$

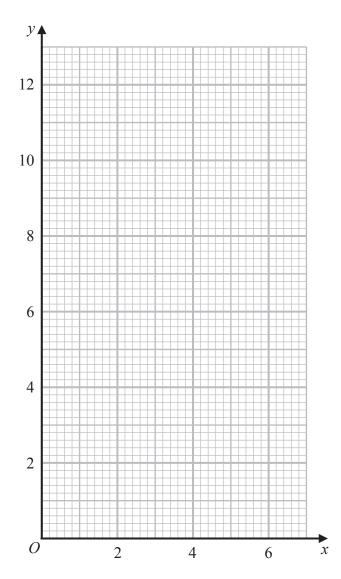
(3)

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

х	0.5	1	2	3	4	5	6	
у		6		2			1	

(2)

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



(2)

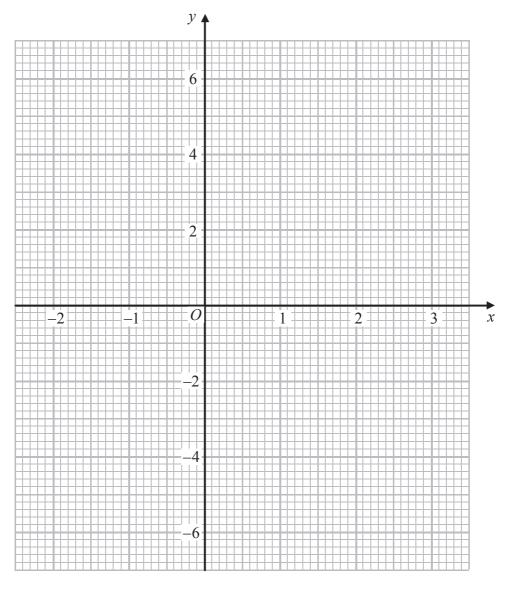
(Total for Question 6 is 4 marks)

7 (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		

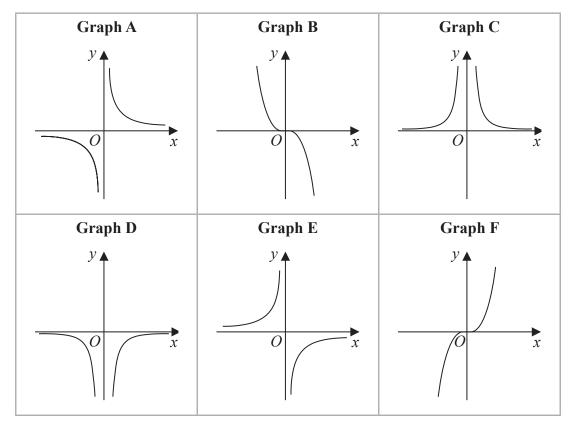
(2)

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





**8** 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
$y = \frac{2}{x^2}$	
$y = -\frac{1}{2}x^3$	
$y = -\frac{5}{x}$	

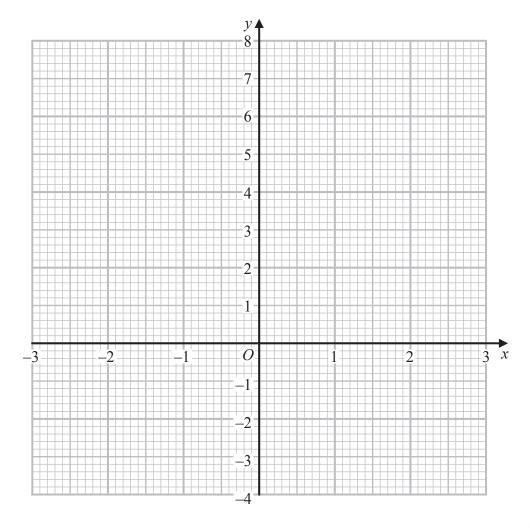
(Total for Question 8 is 3 marks)

(a) Complete the table of values for  $y = x^2 - \frac{x}{2} - 3$ 

х	-3	-2	-1	0	1	2	3
у	7.5				-2.5		4.5

(2)

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



**(2)** 

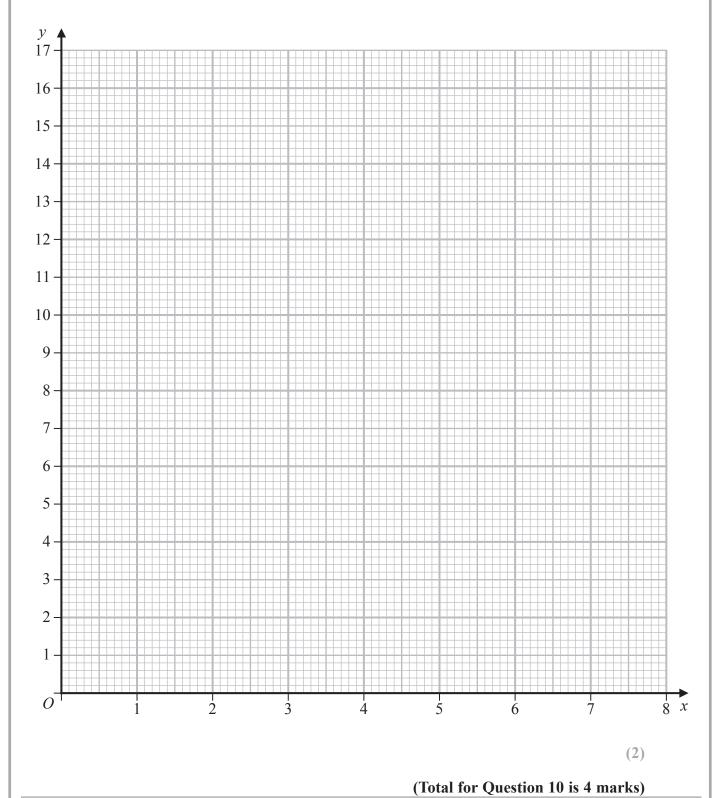
(Total for Question 9 is 4 marks)

10 (a) Complete the table of values for	$y = \frac{1}{2}(x^2 + 4)$
	$\boldsymbol{\mathcal{X}}$

х	0.25	0.5	1	2	4	8
y	16.25					8.5

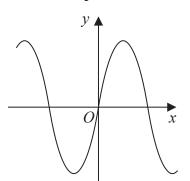
(2)

(b) On the grid, draw the graph of  $y = \frac{1}{x}(x^2 + 4)$  for  $0.25 \le x \le 8$ 

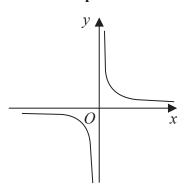


11 Here are nine graphs.

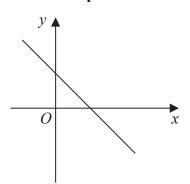
Graph A



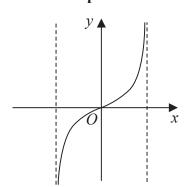
Graph B



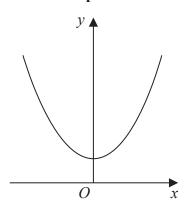
Graph C



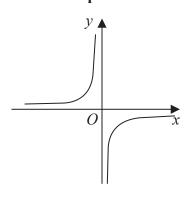
Graph D



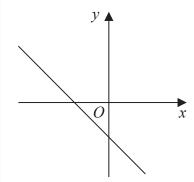
Graph E



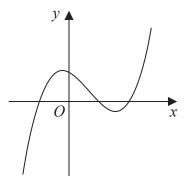
Graph F



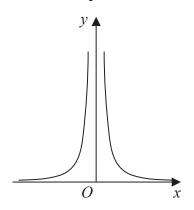
Graph G



Graph H



Graph I



Complete the table below with the letter of the graph that could represent each given equation. Write each answer on the dotted line.

Equation	Graph
y = -2x + 3	
$y = -\frac{1}{x}$	
$y = \tan x^{\circ}$	
y = (x + 1)(x - 1)(x - 2)	

(Total for Question 11 is 3 marks)

(a) Complete the table of values for  $y = \frac{1}{2}x^3 - 2x + 3$ 

x	-3	-2	-1	0	1	2	3
у	-4.5			3		3	

(2)

(b) On the grid, draw the graph of  $y = \frac{1}{2}x^3 - 2x + 3$  for  $-3 \le x \le 3$ 

