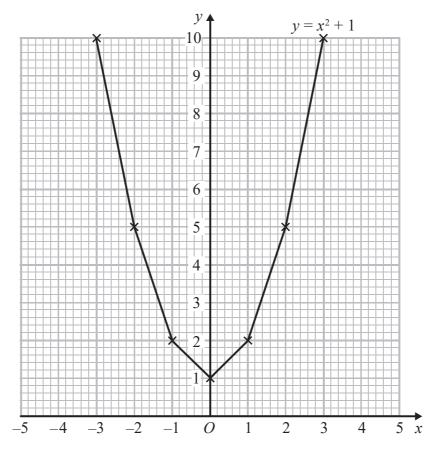
Autumn 2017 Paper 1 Q29

1 Brogan needs to draw the graph of $y = x^2 + 1$

Here is her graph.



Write down one thing that is wrong with Brogan's graph.

(Total for Question 1 is 1 mark)

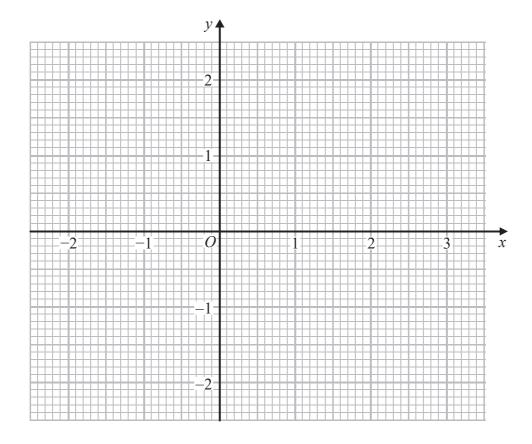
Autumn 2017 Paper 3 Q13

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

x	-2	-1	0	1		
y	-2				0	

(2)

(b) On the grid, draw the graph of $y = \frac{1}{2}x - 1$ for values of x from -2 to 3



(2)

(c) Use your graph to find the value of x when y = 0.3

 $x = \dots$ (1)

(Total for Question 2 is 5 marks)

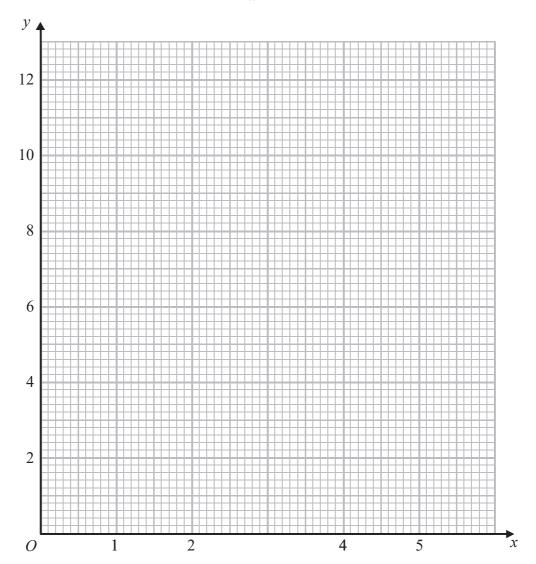
Summer 2017 Paper 3 Q22

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

х	0.5	1	1.5	2	3		
У		6		3		1.5	

(2)

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



(2)

(Total for Question 3 is 4 marks)

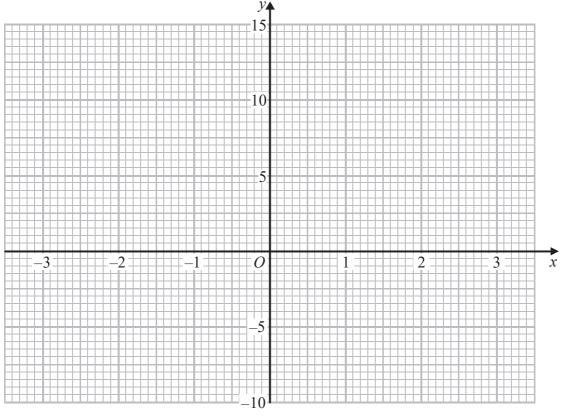
Autumn 2018 Paper 3 Q22

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

x	-3	-2	-1	0	1	
у		-2	-4		-2	

(2)

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



(2)

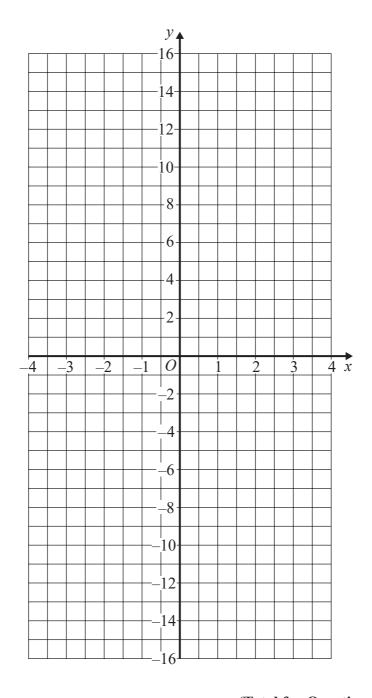
(c) Use the graph to estimate a solution to $x^2 + x - 4 = 0$

(1)

(Total for Question 4 is 5 marks)

Summer 2018 Paper 1 Q25

5 On the grid below, draw the graph of y = 1 - 4x for values of x from -3 to 3



(Total for Question 5 is 3 marks)

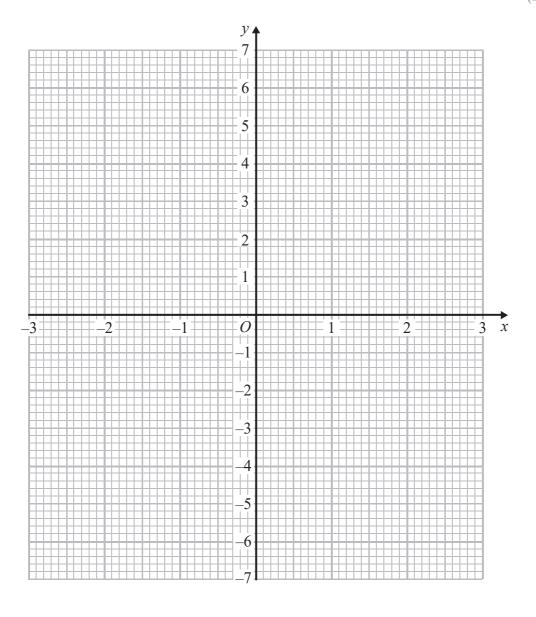
6 (a) Complete the table of values for $y = x^2 - x - 6$

x	-3	-2	-1	0	1	
у	6			- 6		

(2)

(b) On the grid, draw the graph of $y = x^2 - x - 6$ for values of x from -3 to 3

(2)



(2)
(Total for Question 6 is 6 marks)

Autumn 2021 Paper 2 Q24

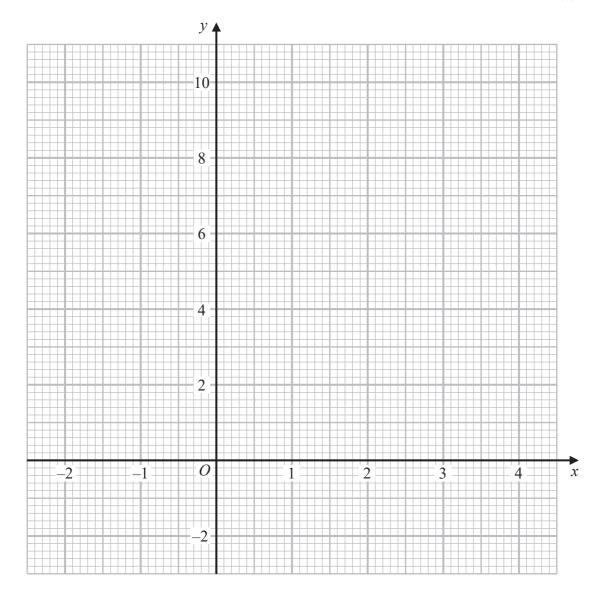
7 (a) Complete the table of values for $y = x^2 - 2x + 2$

x	-2	-1	0	1	2	3	4
у	10		2			5	

(2)

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

(2)



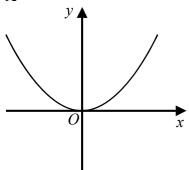
(c) Use your graph to find estimates of the solutions of the equation $x^2 - 2x + 2 = 4$

(2)

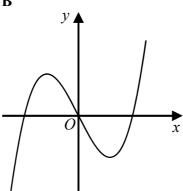
(Total for Question 7 is 6 marks)

Here are six graphs.

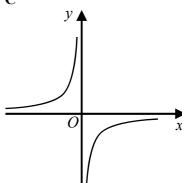




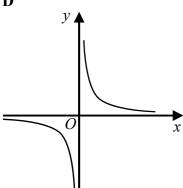
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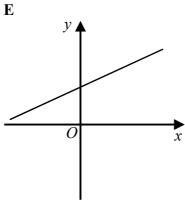


 \mathbf{C}

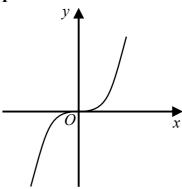


D





 \mathbf{F}



Write down the letter of the graph that could have the equation

(a)
$$y = x^3$$

(1)

(b)
$$y = \frac{1}{x}$$

(1)

(Total for Question 8 is 2 marks)

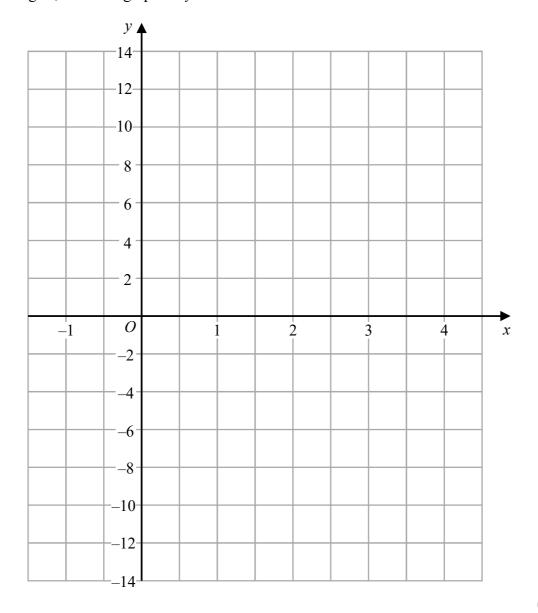
Autumn 2019 Paper 3 Q17

9 (a) Complete the table of values for y = 4x - 6

x	-1	0	1	2	3	4
у			-2			10

(2)

(b) On the grid, draw the graph of y = 4x - 6 for values of x from -1 to 4

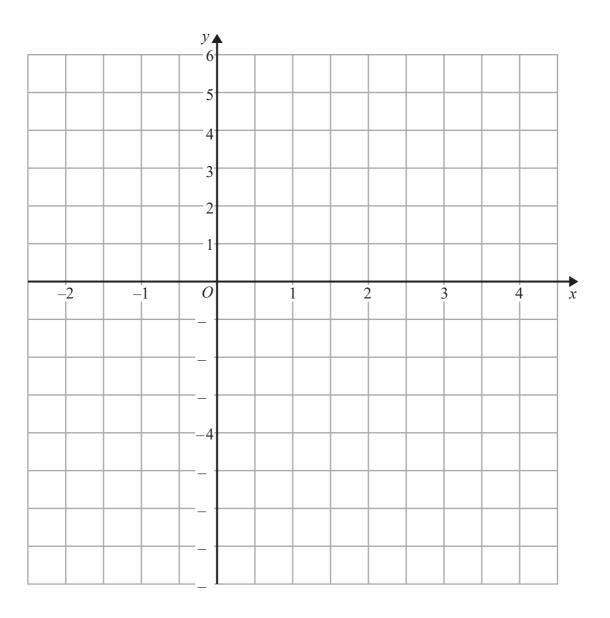


(2)

(Total for Question 9 is 4 marks)

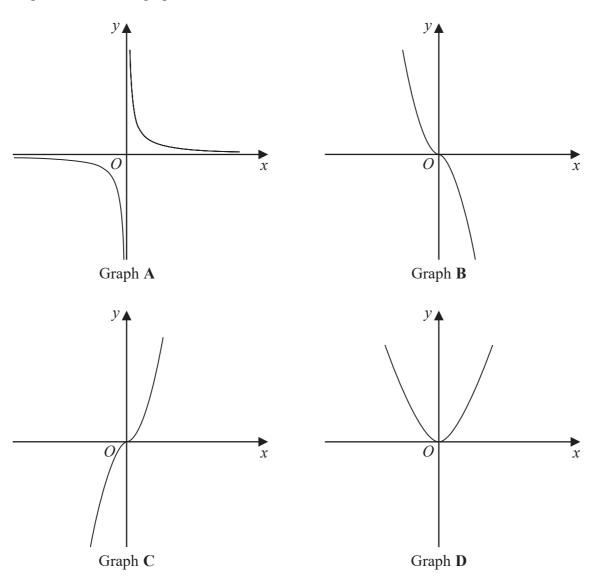
Summer 2019 Paper 2 Q21

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



(Total for Question 10 is 3 marks)

11 The diagram shows four graphs.



Each of the equations in the table is the equation of one of the graphs.

Complete the table.

Equation	Letter of graph
$y = -x^3$	
$y = x^3$	
$y = x^2$	
$y = \frac{1}{x}$	

(Total for Question 11 is 2 marks)

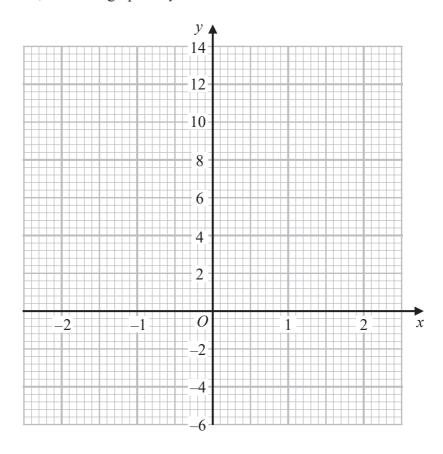
Summer 2020 Paper 2 Q24

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

x	-2	-1	0	1	2
y		6			

(2)

(b) On the grid below, draw the graph of $y = 5 - x^3$ for values of x from -2 to 2

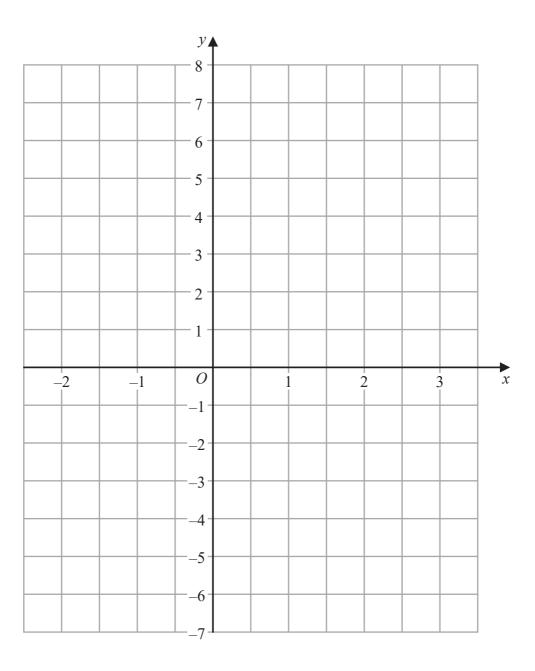


(2)

(Total for Question 12 is 4 marks)

Autumn 2021 Paper 1 Q18

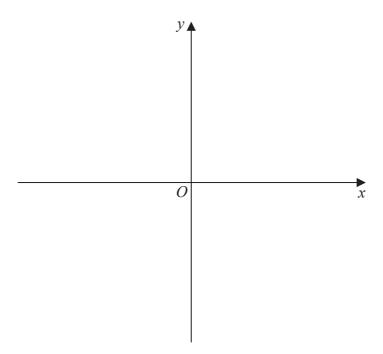
13 On the grid below, draw the graph of y = 2x - 2 for values of x from -2 to 3



(Total for Question 13 is 3 marks)

Autumn 2021 Paper 3 Q28

14 Sketch the graph of $y = \frac{1}{x}$



(Total for Question 14 is 2 marks)

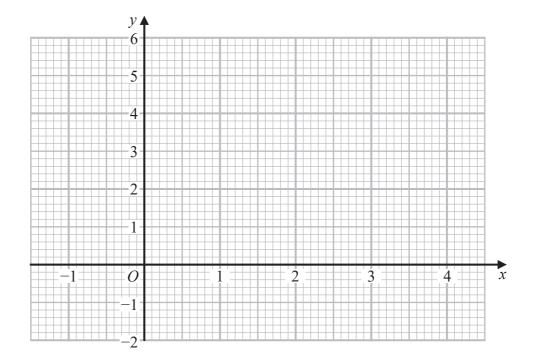
Summer 2022 Paper 1 Q28

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

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

(2)

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



(2)

(c) Using your graph, find estimates for the solutions of the equation $x^2 - 3x + 1 = 0$

(2)

(Total for Question 15 is 6 marks)