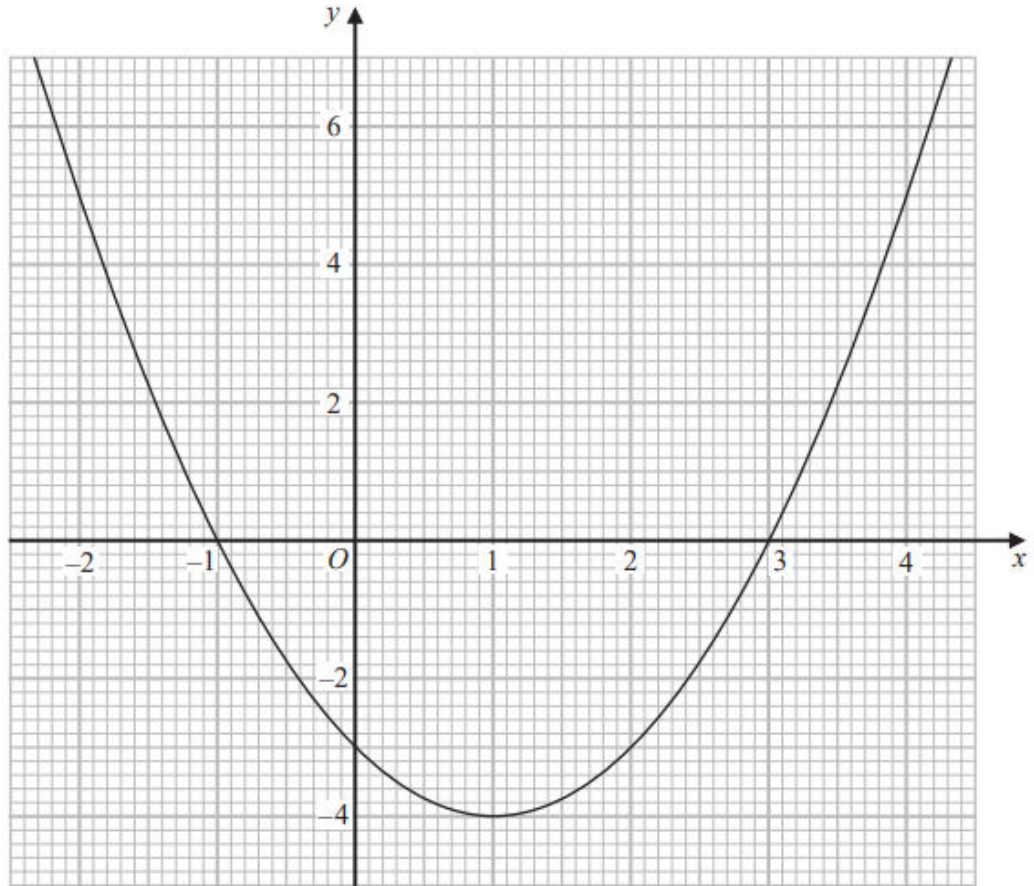


**DRAWING QUADRATIC GRAPHS**

Pearson Edexcel - Tuesday 21 May 2019 - Paper 1 (Non-Calculator) Foundation Tier

1.

29 Here is the graph of  $y = x^2 - 2x - 3$



(a) Write down the coordinates of the turning point on the graph of  $y = x^2 - 2x - 3$

(....., .....)  
(1)

(b) Use the graph to find the roots of the equation  $x^2 - 2x - 3 = 0$

.....  
(2)

**(Total for Question 29 is 3 marks)**

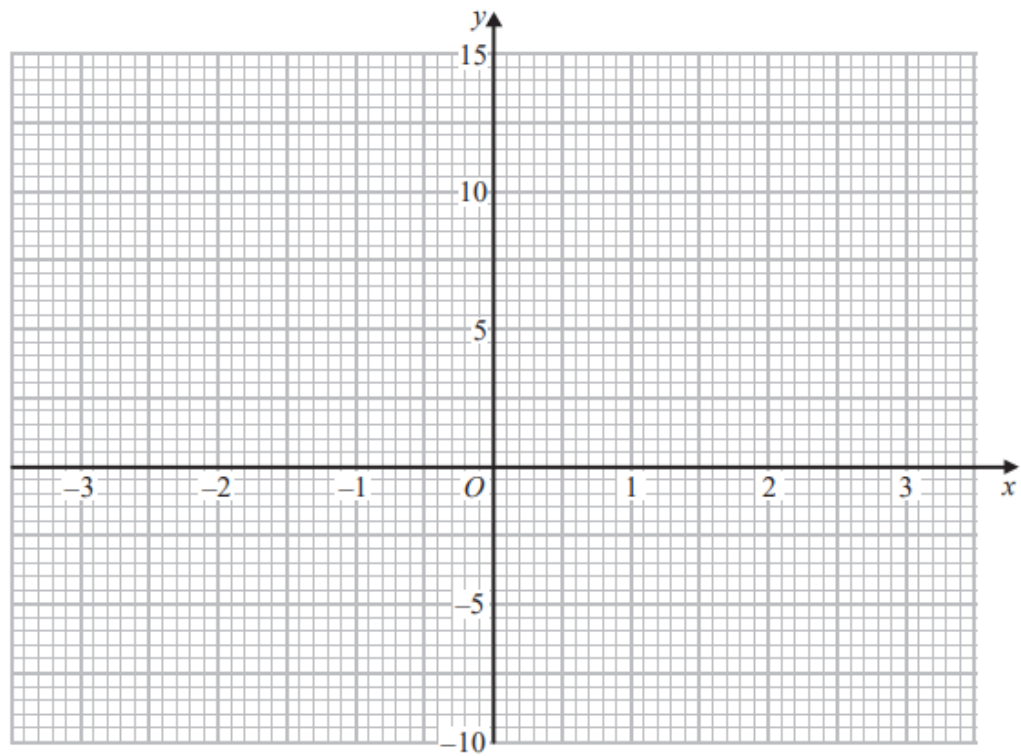
2.

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

$x$	-3	-2	-1	0	1	2	3
$y$		-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 22 is 5 marks)

3.

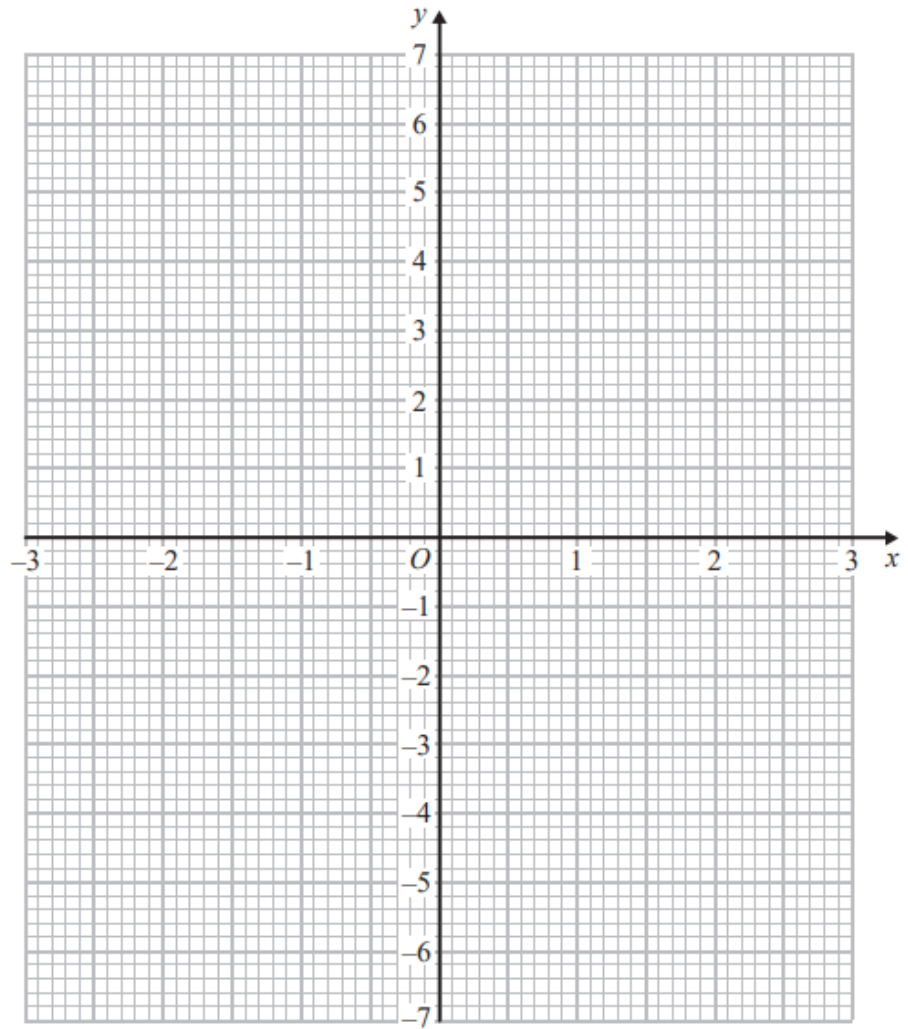
24 (a) Complete the table of values for  $y = x^2 - x - 6$

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



(c) Use your graph to find estimates of the solutions to the equation  $x^2 - x - 6 = -2$

.....  
(2)

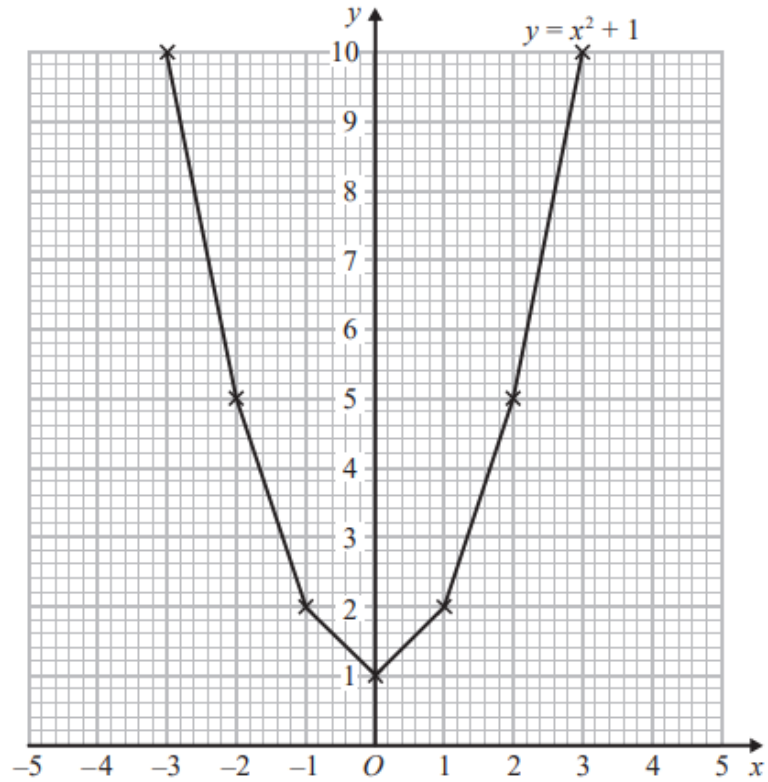
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**(Total for Question 24 is 6 marks)**

4.

29 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 29 is 1 mark)

OCR November 09 November 2020- Morning (Calculator) Foundation Tier

5.

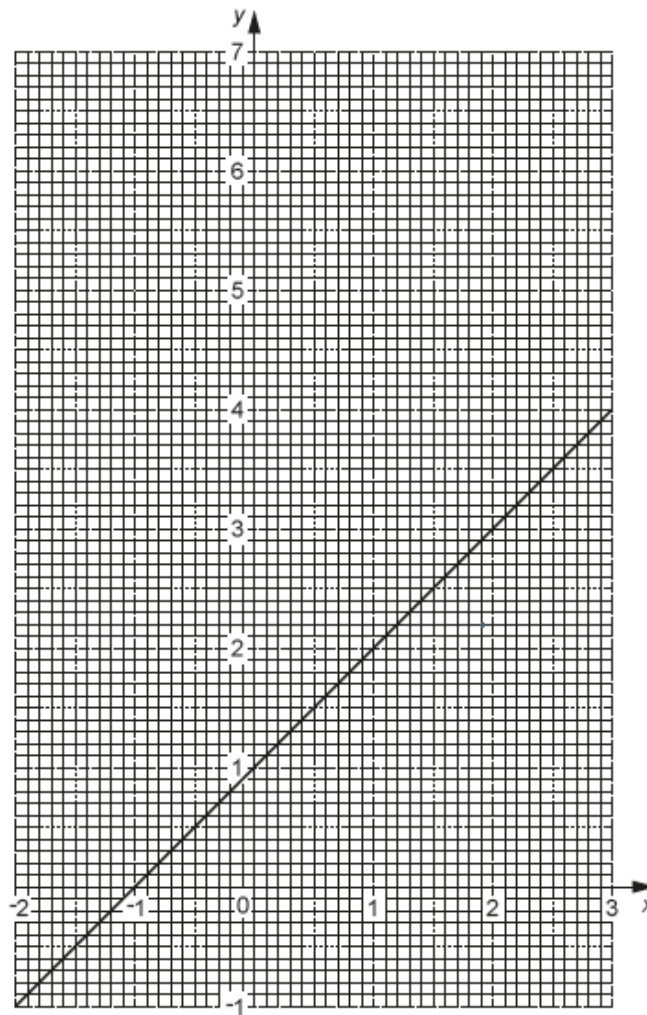
22 (a) Complete this table for  $y = x^2 - x$ .

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

[2]

(b) The graph of  $y = x + 1$  is shown on the grid.

On the same grid, use part (a) to draw the graph of  $y = x^2 - x$  for values of x from -2 to 3.



[3]

(c) Write down the x-coordinates of the points where  $y = x^2 - x$  and  $y = x + 1$  cross.

(c)  $x = \dots\dots\dots$  and  $x = \dots\dots\dots$  [2]

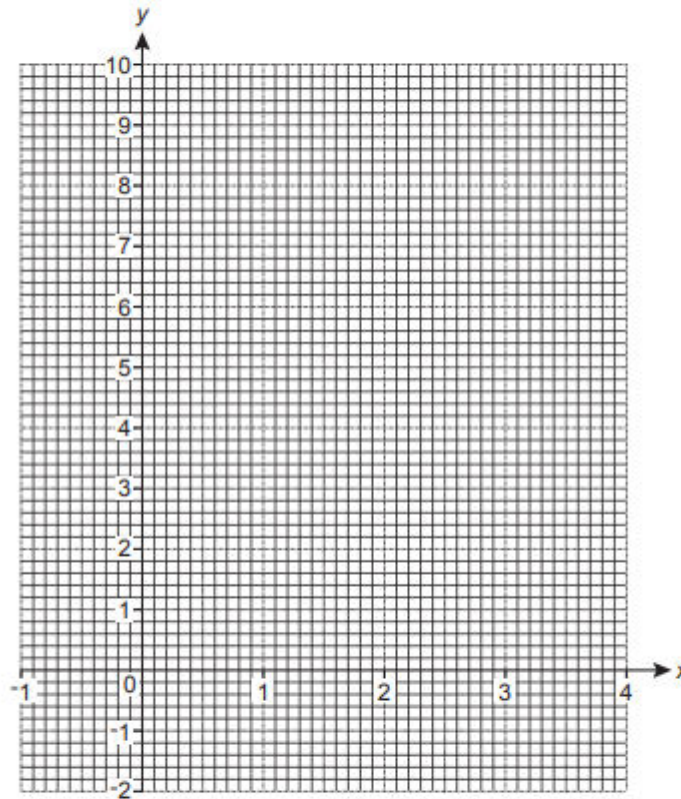
6.

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

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

[1]

(b) Draw the graph of  $y = x^2 - 2x$  for  $-1 \leq x \leq 4$ .



[2]

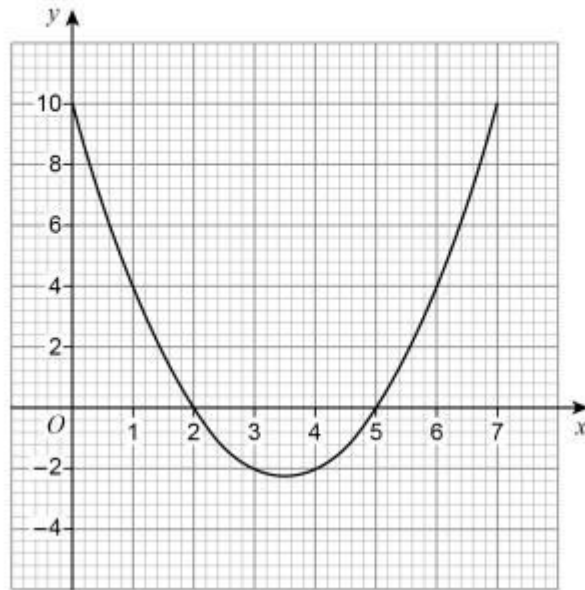
(c) Use your graph to solve  $x^2 - 2x = 2$ .

(c) ..... [2]

AQA Thursday 4 June 2020 – Morning (Calculator) Foundation Tier

7.

22 Here is the graph of  $y = x^2 - 7x + 10$  for values of  $x$  from 0 to 7



22 (a) Write down the roots of  $x^2 - 7x + 10 = 0$

[2 marks]

Answer \_\_\_\_\_

22 (b) Write down the  $x$ -coordinate of the turning point of the curve.

[1 mark]

\_\_\_\_\_

Answer \_\_\_\_\_



AQA Tuesday 6 November 2018 – Morning (Non-Calculator) Foundation Tier

8.

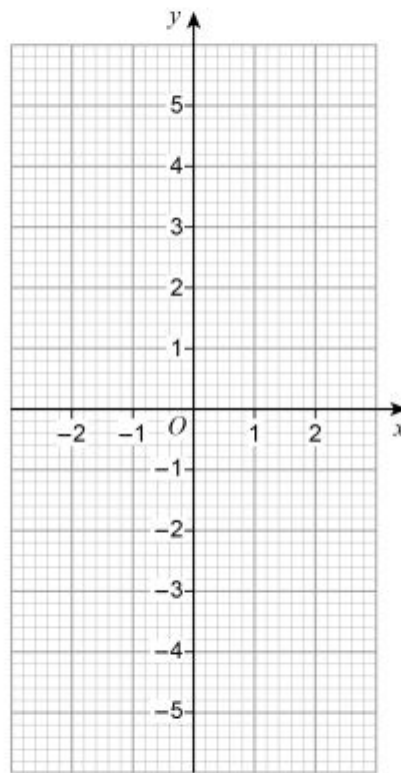
22 (a) Complete the table of values for  $y = x^2$

[1 mark]

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

22 (b) Draw the graph of  $y = x^2$  for values of  $x$  from -2 to 2

[2 marks]



22 (c) Use your graph to estimate the value of  $\sqrt{2.6}$

[2 marks]

Answer \_\_\_\_\_