Write your name here		
Surname	Other r	names
In the style of: Pearson Edexcel GCSE	Centre Number	Candidate Number
Mathem	atics	
Quadratic	Graphs	Higher Tier
GCSE style question	is arranged by topic	Paper Reference 1MA0/2H
You must have: Ruler grad	duated in centimetres and m ses, pen, HB pencil, eraser, ca	11 1

Instructions

- Use **black** ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided there may be more space than you need.
- Calculators may be used.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out**.

Information

- The total mark for this paper is 80
- The marks for each question are shown in brackets
 use this as a guide as to how much time to spend on each question.

Advice

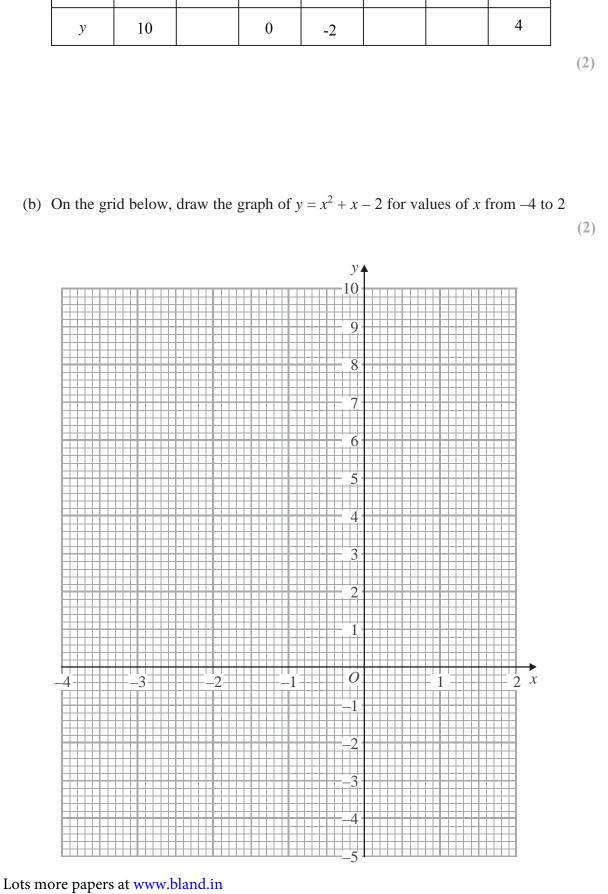
- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.







1 (a) Complete the table of values for $y = x^2 + x - 2$ -3 -2 0 1 -4 -1 х 0 10 -2 y y∎ 10



2

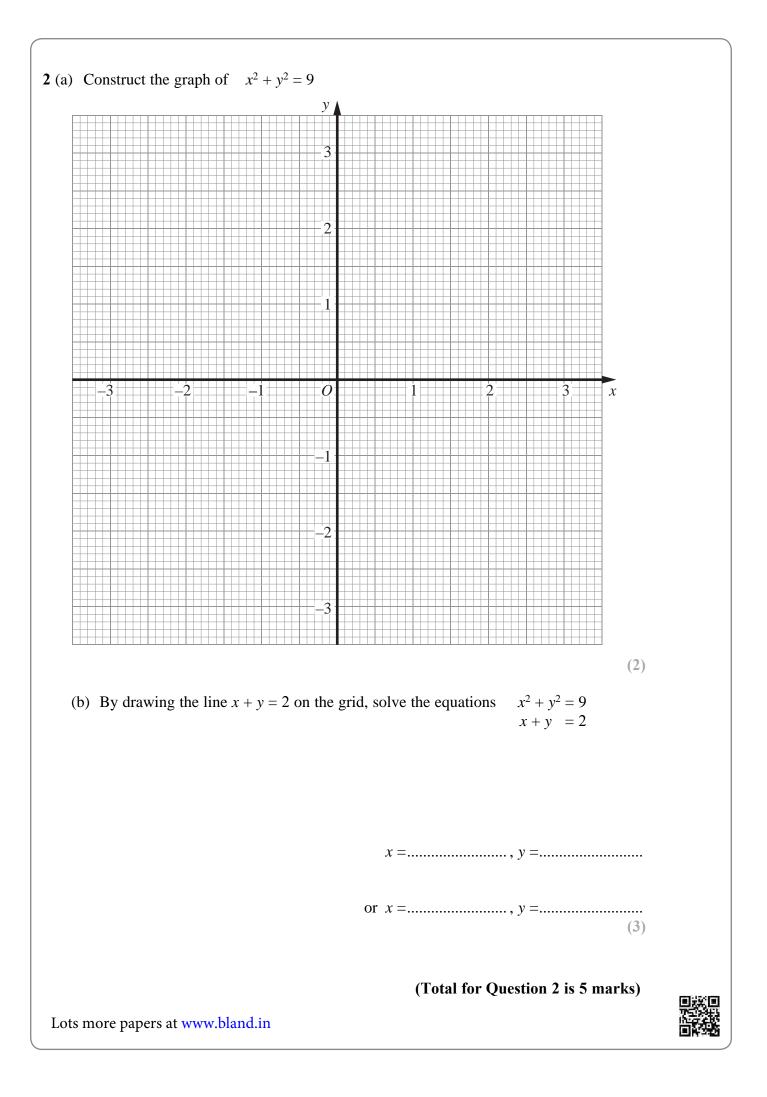
(c) Use your graph to find estimates for the solutions of $x^2 + x - 2 = 0$

 $x = \dots$ $x = \dots$ (1)

(Total for Question 1 is 5 marks)



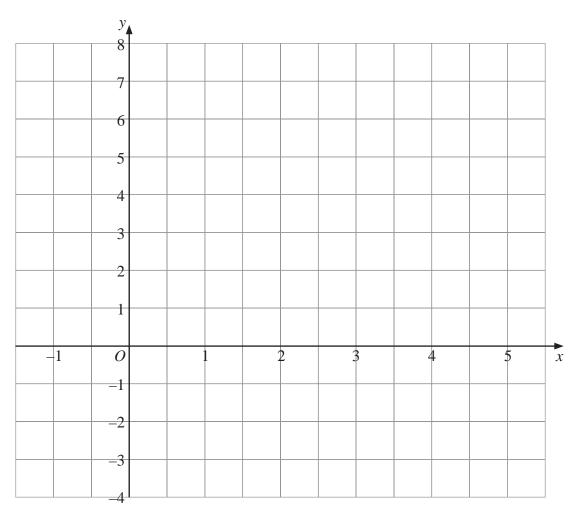
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3 (a) Complete the table of values for $y = x^2 - 4x + 1$

x	-1	0	1		
у		1	-2	-2	6
					(2)

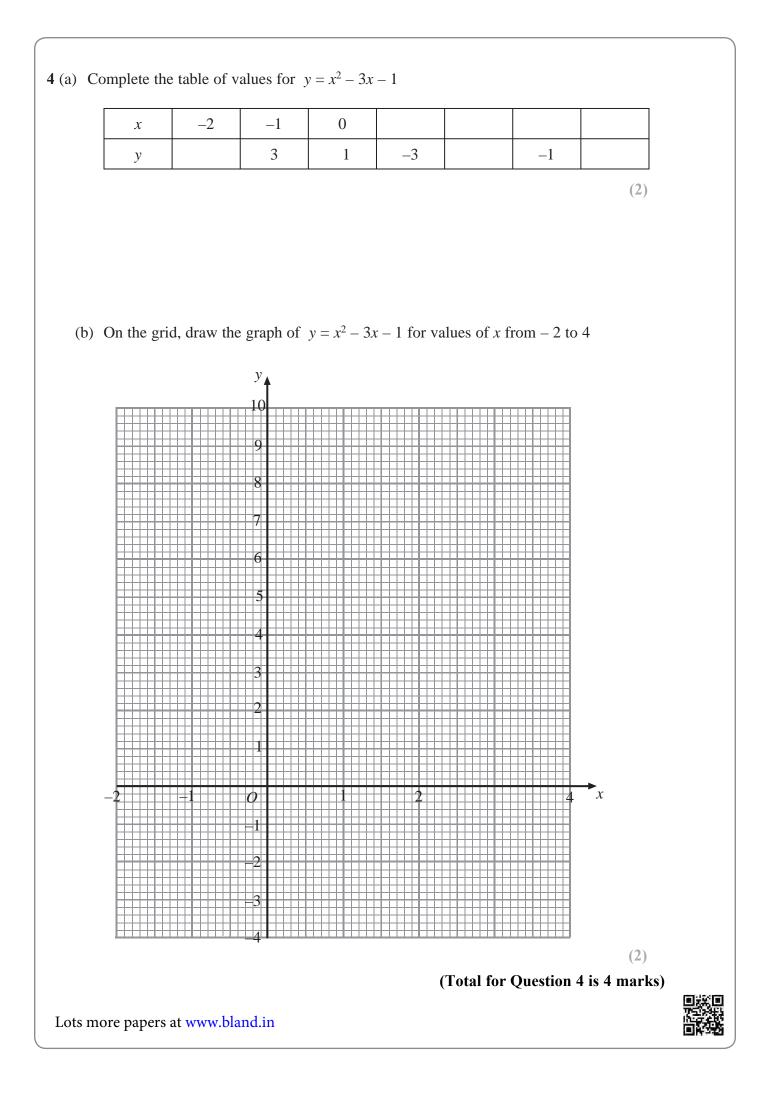
(b) On the grid, draw the graph of $y = x^2 - 4x + 1$

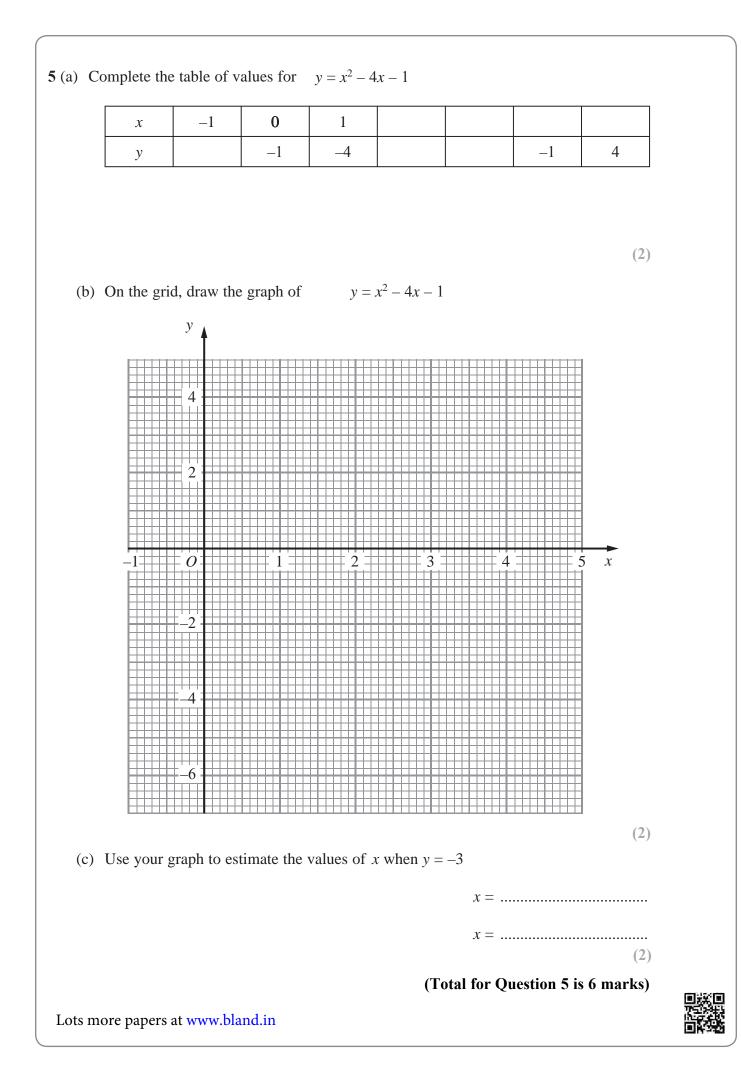


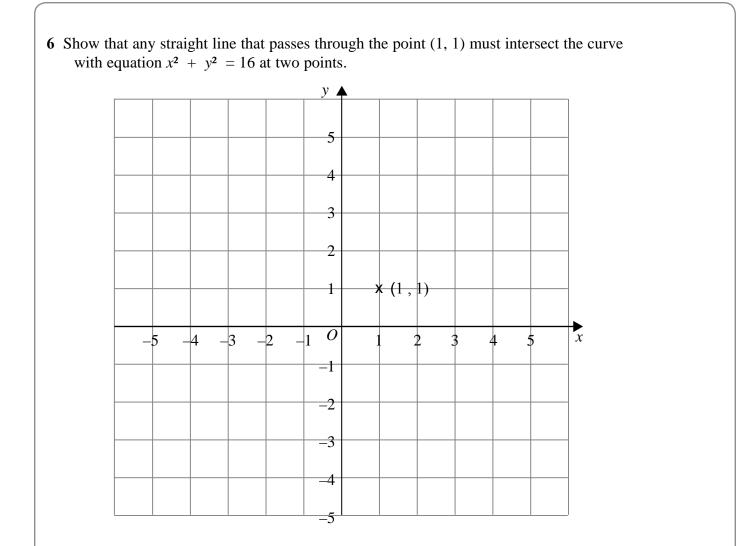
(2)

(Total for Question 3 is 4 marks)









(Total for Question 6 is 3 marks)



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