

# GCSE MATHEMATICS

(Level 5-7)

## Using The Quadratic Formula

Please write clearly in block capitals

Forename:

Surname:

#### Materials

For this paper you must have:

mathematical instruments

You can use a calculator.



#### Instructions

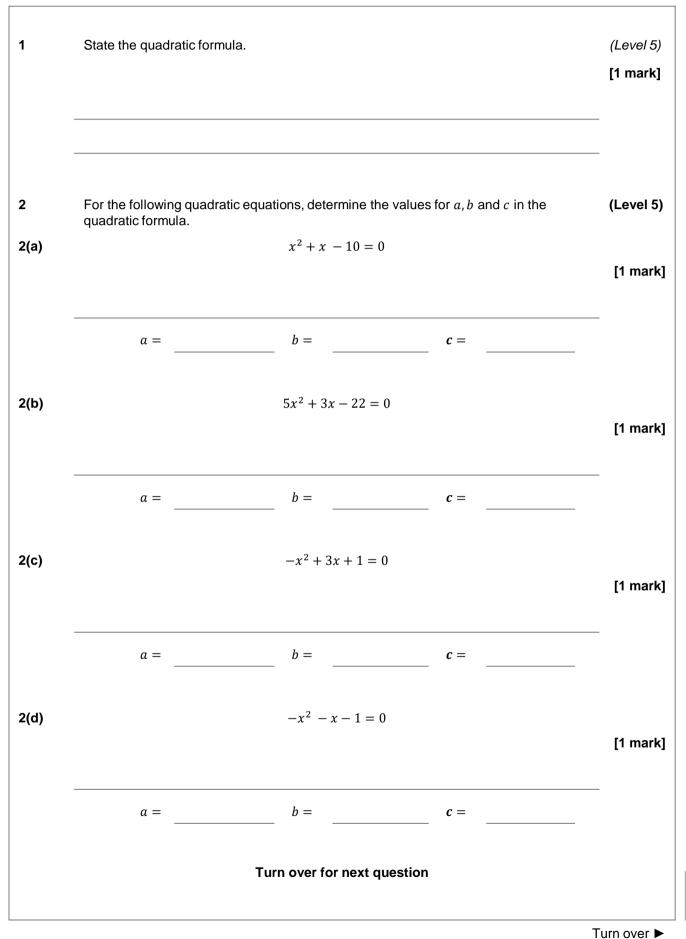
- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- · Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

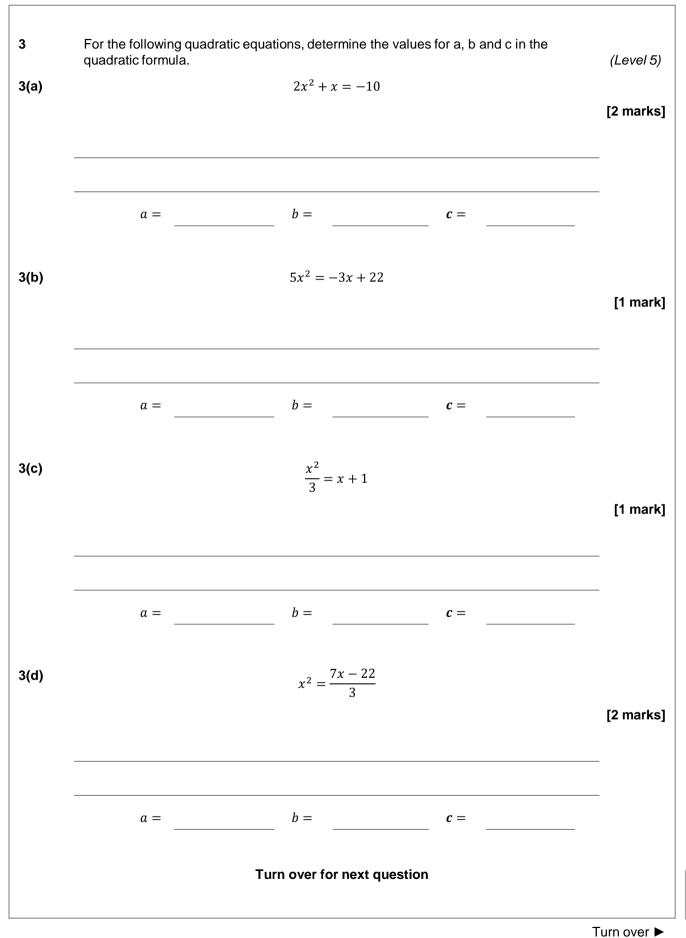
#### Information

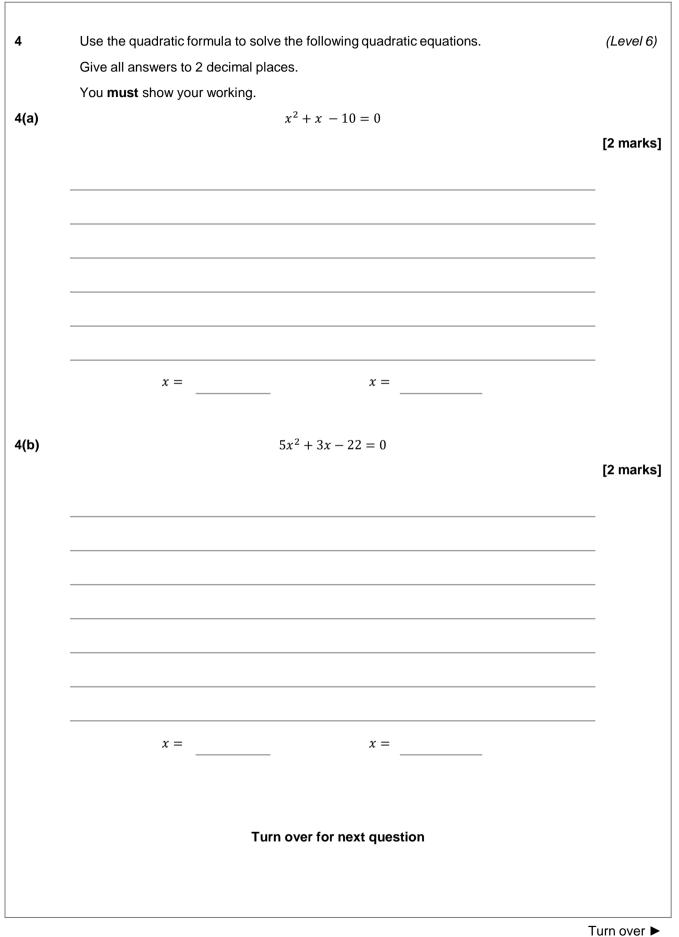
- · The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

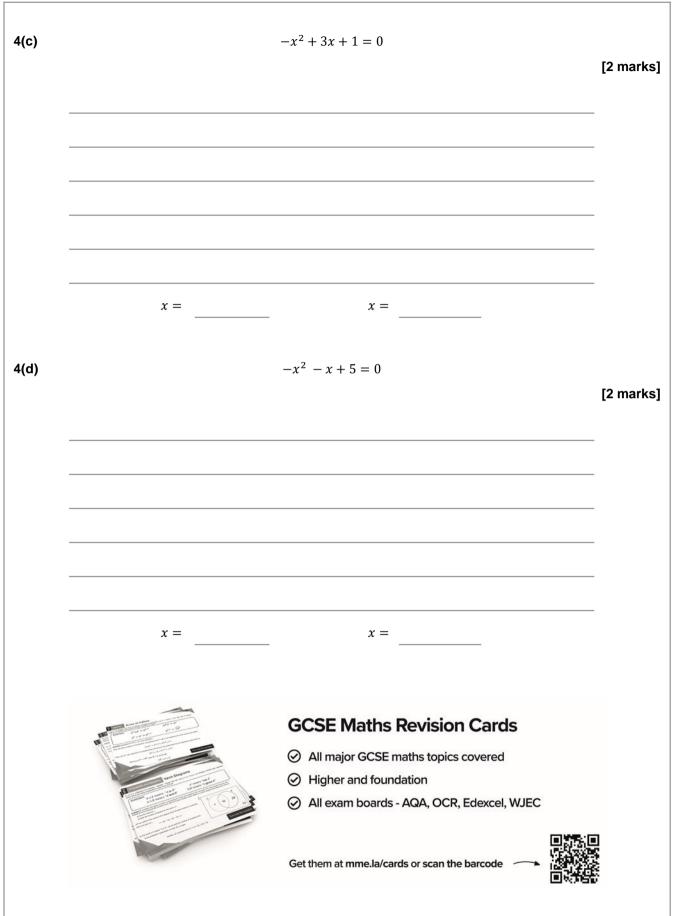
### Advice

· In all calculations, show clearly how you work out your answer.











5	Solve for $x$ , using the quadratic formula;	(Level 6)
	$x^2 + 10x + 20 = 0$	
	Give your answer as a surd.	[3 marks]
	Answer	
6	Solve for $x$ , using the quadratic formula;	(Level 6)
	$x^2 - 2(x+5) = 4x + 8$	
	Give your answer to 2 decimal places.	[3 marka]
		[3 marks]
	Answer	
7	Solve for $x$ , using the quadratic formula.	(Level 6)
	$3x^2 - 42x + 147 = 0$	
		[2 marks]
	Answer	
	Turn over for next question	
		Turn over ►

3