

GCSE MATHEMATICS AQA | Edexcel | OCR | WJEC

Factorising Quadratics (a > 1)

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.

1	Factorise the following quadratics:	
1(a)	$2x^2 + 14x + 24$	
		[2 marks]
	Answer	
1(b)	$3x^2 + 13x + 14$	[O manka]
		[2 marks]
	Anguar	
	Answer	
1(c)	$3x^2 + 30x + 48$	
(-)		[2 marks]
	Answer	
1(d)	$5x^2 + 39x + 28$	50
		[2 marks]
	Answer	
1(e)	$5x^2 + 27x + 10$	
		[2 marks]
	Answer	
	Turn over for next question	

Turn over ►

2	Factorise the following quadratics:	
2(a)	$4x^2 + 20x + 16$	
		[2 marks]
	Answer	
0(1)	6.2 + 22 + 42	
2(b)	$6x^2 + 32x + 42$	[2 marks]
	Answer	
2(c)	$4x^2 + 18x + 8$	
		[2 marks]
	Answer	
2(d)	$8x^2 + 46x + 30$	
		[2 marks]
	Answer	
0(-)	0.2 : 24	
2(e)	$9x^2 + 24x + 16$	[2 marks]
	Answer	
	Turn over for next question	
	·	

Turn over ►

3	Factorise the following quadratics	:	
3(a)		$2x^2 - 18x + 16$	
			[2 marks]
	Answer		
3(b)		$7x^2 - 8x + 1$	
			[2 marks]
	Answer		
3(c)		$6x^2 - 22x + 12$	
			[2 marks]
	Answer		
3(d)		$3x^2 - 20x + 12$	[2 marks]
			[2 markoj
	Answer		
3(e)		$8x^2 - 26x + 6$	
			[2 marks]
	Answer		
	Turı	n over for next question	

Turn over ▶

4	Factorise the following quadratics:	
4(a)	$2x^2 + 2x - 12$	
		[2 marks]
	Answer	-
4(b)	$3x^2 - 20x - 32$	
		[2 marks]
	Answer	-
4(c)	$3x^2 + 15x - 42$	
4(0)	3x + 13x - 42	[2 marks]
	Answer	
		-
4(d)	$5x^2 - 26x - 24$	
		[2 marks]
	Answer	-
4(0)	$7x^2 - 23x - 20$	
4(e)	$7x^{2} - 23x - 20$	[2 marks]
		•
	Answer	
		-
	Turn over for next question	
	rum over for flext question	

Turn over ▶

5	Factorise the following quadratics:		
5(a)	$6x^2$	-26x + 24	
		[2 1	marks]
	Answer		
F/L-)	0.2	56 40	
5(b)	8x2	-56x + 48	marks]
		[2]	ııaı kəj
	Answer		
5(c)	6 <i>x</i>	$x^2 + x - 7$	
		[21	marks]
	Answer		
6(a)	Factorise $x^2 - 64$		
σ(α)		[1	mark]
	Answer		
6(b)	Factorise $x^2 - y^2$		
		[1]	mark]
	Answer		
	End	I of Questions	

END