Factorising Quadratics ($a > 1$)

Please write clearly in block capitals

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Materials

For this paper you must have:

• mathematical instruments

You must not 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.
Factorise the following quadratics: \( \text{ (Level 7) } \)

1(a) \( 2x^2 + 14x + 24 \) \([2 \text{ marks}]\)

Answer \( \quad \)

1(b) \( 3x^2 + 13x + 14 \) \([2 \text{ marks}]\)

Answer \( \quad \)

1(c) \( 3x^2 + 30x + 48 \) \([2 \text{ marks}]\)

Answer \( \quad \)

1(d) \( 5x^2 + 39x + 28 \) \([2 \text{ marks}]\)

Answer \( \quad \)

1(e) \( 5x^2 + 27x + 10 \) \([2 \text{ marks}]\)

Answer \( \quad \)

Turn over for next question

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Factorise the following quadratics: (Level 7)

2(a) $4x^2 + 20x + 16$ [2 marks]

Answer

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

2(e) $9x^2 + 24x + 16$ [2 marks]

Answer

Turn over for next question
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]

Answer

3(e) \[8x^2 - 26x + 6\] 

[2 marks]

Answer

Turn over for next question
Factorise the following quadratics: (Level 7)

4(a) $2x^2 + 2x - 12$

Answer

4(b) $3x^2 - 20x - 32$

Answer

4(c) $3x^2 + 15x - 42$

Answer

4(d) $5x^2 - 26x - 24$

Answer

4(e) $7x^2 - 23x - 20$

Answer

Turn over for next question
Factorise the following quadratics: 

5(a) \[6x^2 - 26x + 24\] 

[2 marks]

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5(b) \[8x^2 - 56x + 48\] 

[2 marks]

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5(c) \[6x^2 + x - 7\] 

[2 marks]

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6(a) Factorise \(x^2 - 64\) 

(Level 7)  

[1 marks]

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6(b) Factorise \(x^2 - y^2\)  

[1 marks]