

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) $x^2 + 14x + 48$

[2 marks]

Answer _____

1(b) $x^2 + 13x + 42$

[2 marks]

Answer _____

1(c) $x^2 + 10x + 16$

[2 marks]

Answer _____

1(d) $x^2 + 8x + 7$

[2 marks]

Answer _____

1(e) $x^2 + 12x + 32$

[2 marks]

Answer _____

Turn over for next question

Turn over ►

2 Factorise the following quadratics:

2(a) $x^2 - 10x + 24$

[2 marks]

Answer _____

2(b) $x^2 - 11x + 28$

[2 marks]

Answer _____

2(c) $x^2 - 11x + 30$

[2 marks]

Answer _____

2(d) $x^2 - 8x + 15$

[2 marks]

Answer _____

2(e) $x^2 - 4x + 4$

[2 marks]

Answer _____

Turn over for next question

Turn over ►

3 Factorise the following quadratics:

3(a) $x^2 + x - 30$

[2 marks]

Answer _____

3(b) $x^2 + 2x - 35$

[2 marks]

Answer _____

3(c) $x^2 + 4x - 5$

[2 marks]

Answer _____

3(d) $x^2 - x - 2$

[2 marks]

Answer _____

3(e) $x^2 - 4x - 5$

[2 marks]

Answer _____

Turn over for next question

4 Factorise the following quadratics:

4(a) $x^2 - 3x - 40$

[2 marks]

Answer _____

4(b) $x^2 + 5x + 4$

[2 marks]

Answer _____

4(c) $x^2 + 3x - 18$

[2 marks]

Answer _____

4(d) $x^2 + x - 2$

[2 marks]

Answer _____

4(e) $x^2 - 6x + 5$

[2 marks]

Answer _____

End of Questions