Instructions

• Use black ink or ball-point pen.
• Answer all questions.
• Answer the questions in the spaces provided – there may be more space than you need.
• Diagrams are NOT accurately drawn, unless otherwise indicated.
• You must show all your working out.

Information

• 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. Factorise $2x^2 + 5x + 2$

(Total for question 1 is 2 marks)

2. Factorise $2x^2 + 11x + 12$

(Total for question 2 is 2 marks)

3. Solve $3x^2 + 17x + 10 = 0$

(Total for question 3 is 3 marks)
4 Factorise $2x^2 - x - 1$

(Total for question 4 is 2 marks)

5 Factorise $3x^2 - 11x + 6$

(Total for question 5 is 2 marks)

6 Solve $4x^2 - 19x - 5 = 0$

(Total for question 6 is 3 marks)
7 Factorise  \(2x^2 + 3x - 9\)

(Total for question 7 is 2 marks)

8 Factorise  \(2x^2 - 9x + 10\)

(Total for question 8 is 2 marks)

9 Solve  \(5x^2 + 11x - 12 = 0\)

(Total for question 9 is 3 marks)
10 Factorise $3x^2 + 16x + 21$

(Total for question 10 is 2 marks)

11 Factorise $2x^2 - 21x + 54$

(Total for question 11 is 2 marks)

12 Solve $5x^2 - 37x - 24 = 0$

(Total for question 12 is 3 marks)
13 Factorise $6x^2 + 17x + 12$

(Total for question 13 is 2 marks)

14 Factorise $9x^2 - 3x - 20$

(Total for question 14 is 2 marks)

15 Solve $15x^2 - 22x + 8 = 0$

(Total for question 15 is 3 marks)
16 Factorise fully \(2x^2 - 98\)

(Total for question 16 is 2 marks)

17 Factorise fully \(3x^2 - 12\)

(Total for question 17 is 2 marks)

18 Solve \(5x^2 - 80 = 0\)

(Total for question 18 is 3 marks)
19. Factorise $x^2 + 2xy + y^2$

(Total for question 19 is 2 marks)

20. Factorise $2x^2 + 13xy + 15y^2$

(Total for question 20 is 2 marks)

21. Factorise $3x^2 - 17xy + 20y^2$

(Total for question 21 is 2 marks)