



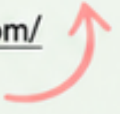
JP Maths

Revision



Attempt the paper
before watching the
solutions!

[https://www.youtube.com/
@JPMathsRevision](https://www.youtube.com/@JPMathsRevision)



FOUNDATION / HIGHER TIER

Solving Quadratic Equations (Factorising)



INSTRUCTIONS

- Use **black ink** or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working.**
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.



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.



You've got this!

1. Solve $(x + 2)(x - 1) = 0$

.....
(Total for Question 1 is 1 mark)

2. Solve $(x - 2)(x - 6) = 0$

.....
(Total for Question 2 is 1 mark)

3. Solve $(x + 1)^2 = 0$

.....
(Total for Question 3 is 1 mark)

4. Solve $x^2 + 10x + 21 = 0$

.....
(Total for Question 4 is 2 marks)

5. Solve $x^2 - 7x + 12 = 0$

.....
(Total for Question 5 is 2 marks)

6. Solve $x^2 - 4x - 12 = 0$

.....
(Total for Question 6 is 2 marks)

7. Solve $x^2 - 10x + 16 = 0$

.....
(Total for Question 7 is 2 marks)

8. Solve $x^2 - 2x - 24 = 0$

.....
(Total for Question 8 is 2 marks)

9. Solve $x^2 - 5x + 6 = 0$

.....
(Total for Question 9 is 2 marks)

10. Solve $x^2 - 9 = 0$

.....
(Total for Question 10 is 2 marks)

11. Solve $x^2 - 16 = 0$

.....
(Total for Question 11 is 2 marks)

12. Solve $x^2 - 1 = 0$

.....
(Total for Question 12 is 2 marks)

13. Solve $3x^2 - 6x = 0$

.....
(Total for Question 13 is 2 marks)

14. Solve $9x^2 + 12x = 0$

.....
(Total for Question 14 is 2 marks)

15. Solve $x^2 - 10x + 25 = 0$

.....
(Total for Question 15 is 2 marks)

HIGHER ONLY

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

.....
(Total for Question 16 is 3 marks)

HIGHER ONLY

17. Solve $2x^2 + 3x + 1 = 0$

.....
(Total for Question 17 is 3 marks)

HIGHER ONLY

18. Solve $6x^2 + 7x + 2 = 0$

.....
(Total for Question 18 is 3 marks)

19. Solve $4x^2 - 9 = 0$

.....
(Total for Question 19 is 2 marks)
