

SOLVING QUADRATIC EQUATIONS (FACTORISING)

FOUNDATION / HIGHER TIER

Attempt the paper
before watching the
solutions!

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

Name: _____

Date: _____

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

$x = -2, 1$
..... (1)

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

$x = 2, 6$
..... (1)

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

$x = -1$
..... (1)

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

$x = -3, -7$
..... (2)

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

$x = 3, 4$
..... (2)

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

$x = -2, 6$
..... (2)

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

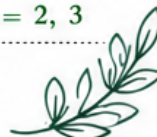
$x = 2, 8$
..... (2)

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

$x = -4, 6$
..... (2)

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

$x = 2, 3$



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

$x = -3, 3$
..... (1)

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

$x = -4, 4$
..... (1)

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

$x = -1, 1$
..... (1)

HIGHER ONLY

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

$x = 0, 2$
..... (2)

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

$x = 0, -\frac{4}{3}$
..... (2)

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

$x = 5$
..... (2)

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

$x = -3, -\frac{1}{3}$
..... (3)

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

$x = -1, -\frac{1}{2}$
..... (3)

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

$x = -2, -\frac{1}{6}$
..... (3)

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

$x = -\frac{3}{2}, \frac{3}{2}$
..... (2)

