Name:

Level 2 Further Maths

Factorising Quadratics

Corbettmaths

Ensure you have: Pencil or pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Revision for this topic

www.corbettmaths.com/more/further-maths/

1. Factorise $x^2 + 8x - 105$

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(2)

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2. Factorise $x^2 - 29x + 180$

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(2)

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3. Factorise $2x^2 - x - 10$

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(2)

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4. Factorise $6x^2 + 13x + 6$

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(2)

5. Factorise $3x^2 - 17x + 10$

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(2)

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6. Factorise $4x^2 - 4x - 3$

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(2)

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7. Factorise $12x^2 + 5x - 3$

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(2)

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8. Factorise $12x^2 + 5x - 3$

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(2)

9. Factorise $20x^2 - 23x + 6$

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(2)

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10. Factorise fully $98 - 72x^2$

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(2)

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11. Factorise fully $27y^2 - 75x^2$

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(2)

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12. Factorise fully $x^4 - y^4$

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(2)

13. Factorise fully $1 - y^4$

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(2)

14. Factorise fully $7x^2 - 28$

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(2)

15. Factorise $2x^2 + 11xy + 15y^2$

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(3)

16. Factorise $7x^2 + 20xy - 3y^2$

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(3)

16. Factorise $5x^2 - 13xy - 6y^2$

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(3)

17. Factorise $7x^2 - 22xy + 16y^2$

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(3)

18. Factorise $6x^2 - 35xy + 49y^2$

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(3)

19. (a) Factorise $2x^2 + 7x - 15$

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(2)

(b) Hence solve $2(y-3)^2 + 7(y-3) - 15 = 0$

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(3)

20. (a) Factorise $3x^2 - 17x + 10$

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(2)

(b) Hence solve $3(y-1)^2 - 17(y-1) + 10 = 0$

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(3)

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21. (a) Factorise $15x^2 + 32x + 16$

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(2)

(b) Hence factorise $15(y-7)^2 + 32(y-7) + 16$

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(3)