

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)

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

.....
(2)

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

.....
(2)

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

.....
(2)

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

.....
(2)

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

.....
(2)

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

.....
(2)

8. Factorise $15x^2 + 32x + 16$

.....
(2)

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

.....
(2)

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

.....
(2)

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

.....
(2)

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

.....
(2)

13. Factorise fully $1 - y^4$

.....
(2)

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

.....
(2)

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

.....
(3)

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

.....
(3)

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

.....
(3)

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

.....
(3)

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

.....
(3)

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

.....
(2)

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

.....
(3)

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

.....
(2)

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

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(3)

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

.....
(2)

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

.....
(3)