

Factorising Double Brackets

Factorise the following quadratic expressions fully.

1. Factorise: $x^2 + 7x + 12$

2. Factorise: $x^2 + 2x - 15$

3. Factorise: $x^2 - 10x + 21$

4. Factorise: $y^2 - 5y - 24$

5. Factorise: $a^2 - 81$

6. Factorise: $x^2 - 12x + 36$

7. Factorise: $4p^2 - 25$

8. Factorise: $2x^2 + 14x + 20$

9. Factorise: $3y^2 - 12y - 36$

10. Factorise: $2x^2 + 7x + 3$

11. Factorise: $3a^2 - 10a + 8$

12. Factorise: $5p^2 - 17p + 6$

13. Factorise: $6x^2 + x - 2$

14. Factorise: $1 - x^2$

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

16. The area of a rectangle is $x^2 - 25$. Find expressions for its possible side lengths.

17. Factorise fully: $50 - 2x^2$

18. Factorise: $12 - 8x - 4x^2$

