

## Difference of Two Squares

Factorise these...

1.  $x^2 - 25$

2.  $x^2 - 49$

3.  $x^2 - 81$

4.  $4x^2 - 81$

5.  $100 - 4x^2$

6.  $121 - 100x^2$

7.  $x^2 - y^2$

8.  $9x^2 - 100y^2$

9.  $a^2b^2 - c^2d^2$

10.  $a^2b^2 - 100b^2c^2$

11.  $a^4 - b^6$

12.  $16a^4 - 49b^6$

13.  $49a^2b^4 - 100a^6b^8c^{10}$

14.  $16x^2 - 225y^2$

15.  $2x^2 - 5y^2$

16.  $5x^2 - 45$

17.  $7x^2 - 28$

18.  $32 - 2x^2$

19.  $2x^3y - 8xy^3$

20.  $(x + 1)^2 - (x + 2)^2$

21.  $9(x + 1)^2 - 16(x + 2)^2$

## Difference of Two Squares - **Answers**

Factorise these...

1.  $(x + 5)(x - 5)$

2.  $(x + 7)(x - 7)$

3.  $(x + 9)(x - 9)$

4.  $(2x + 9)(2x - 9)$

5.  $(10 + 2x)(10 - 2x)$

6.  $(11 + 10x)(11 - 10x)$

7.  $(x + y)(x - y)$

8.  $(3x + 10y)(3x - 10y)$

9.  $(ab + cd)(ab - cd)$

10.  $(ab + 10bc)(ab - 10bc)$

11.  $(a^2 + b^3)(a^2 - b^3)$

12.  $(4a^2 + 7b^3)(4a^2 - 7b^3)$

13.  $(7ab^2 + 10a^3b^4c^5)(7ab^2 - 10a^3b^4c^5)$

14.  $(4x + 15y)(4x - 15y)$

15.  $(\sqrt{2}x + \sqrt{5}y)(\sqrt{2}x - \sqrt{5}y)$

16.  $5(x + 3)(x - 3)$

17.  $7(x + 2)(x - 2)$

18.  $2(4 + x)(4 - x)$

19.  $2xy(x + 2y)(x - 2y)$

20.  $-(2x + 3)$

21.  $-(x + 5)(7x + 11)$