

## Difference of Two Squares

Factorise fully:

1.  $x^2 - 16$

2.  $x^2 - 25$

3.  $x^2 - 36$

4.  $36 - x^2$

5.  $4 - x^2$

6.  $100 - x^2$

7.  $200 - 2x^2$

8.  $300 - 3x^2$

9.  $300 - 27x^2$

10.  $300 - 12x^2$

11.  $12x^2 - 300$

12.  $12x^2 - 3y^2$

13.  $3x^2 - 3y^2$

14.  $9x^2 - 9y^2$

15.  $9x^4 - 9y^2$

16.  $9x^4 - 9y^6$

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### Difference of Two Squares: ANSWERS

1.  $(x - 4)(x + 4)$

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

3.  $(x - 6)(x + 6)$

4.  $(6 - x)(6 + x)$

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

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

7.  $2(10 - x)(10 + x)$

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

9.  $3(10 - 3x)(10 + 3x)$

10.  $3(10 - 2x)(10 + 2x)$

11.  $3(2x - 10)(2x + 10)$

12.  $3(2x - y)(2x + y)$

13.  $3(x - y)(x + y)$

14.  $(3x - 3y)(3x + 3y)$

15.  $(3x^2 - 3y)(3x^2 + 3y)$

16.  $(3x^2 - 3y^3)(3x^2 + 3y^3)$

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11.  $3(2x - 10)(2x + 10)$

12.  $3(2x - y)(2x + y)$

13.  $3(x - y)(x + y)$

14.  $(3x - 3y)(3x + 3y)$

15.  $(3x^2 - 3y)(3x^2 + 3y)$

16.  $(3x^2 - 3y^3)(3x^2 + 3y^3)$