

### Difference of Two Squares

Factorise:

- (a)  $x^2 - 4$                       (b)  $x^2 - 49$   
(c)  $x^2 - 9$                         (d)  $x^2 - 1$   
(e)  $x^2 - 64$                         (f)  $x^2 - 100$   
(g)  $x^2 - 144$                         (h)  $x^2 - 225$   
(i)  $100 - x^2$                         (j)  $16 - x^2$

Factorise:

- (a)  $4x^2 - 100$                       (b)  $4x^2 - 49$   
(c)  $16x^2 - 1$                         (d)  $9x^2 - y^2$   
(e)  $25 - 4x^2$                         (f)  $25y^2 - 81$   
(g)  $100x^2 - 4$                         (h)  $16x^2 - 25$   
(i)  $144x^2 - 16$                         (j)  $4x^2 - 64y^2$

Factorise:

- (a)  $2x^2 - 50$                       (b)  $2x^2 - 32$   
(c)  $10x^2 - 10$                         (d)  $10x^2 - 200$   
(e)  $5x^2 - 45$                         (f)  $5y^2 - 80$   
(g)  $8x^2 - 32$                         (h)  $8x^2 - 128$   
(i)  $20x^2 - 5$                         (j)  $75x^2 - 27$

Factorise:

- (a)  $x^3 - 25x$   
(b)  $x^4 - 49$   
(c)  $100x^2 - x^6$   
(d)  $4x^5 - 9x^9$

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