**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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