formula :

बीजीय सर्वसमिकाएँ
Algebraic Identities

(i) $(x+y)^2 = x^2 + 2xy + y^2$

(ii) $(x-y)^2 = x^2 - 2xy + y^2$

(iii) $x^2 - y^2 = (x+y)(x-y)$

(iv) $(x+a)(x+b) = x^2 + (a+b)x + ab$

(v) $(x+y+z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx$

(vi) $(x+y)^3 = x^3 + y^3 + 3xy(x+y)$
$\qquad = x^3 + y^3 + 3x^2y + 3xy^2$

(vii) $x^3 + y^3 = (x+y)^3 - 3xy(x+y)$

(viii) $(x-y)^3 = x^3 - y^3 - 3xy(x-y)$

(ix) $x^3 - y^3 = (x-y)^3 + 3xy(x-y)$