

Algebra

1. $(a + b)^2 = a^2 + b^2 + 2ab$
2. $(a - b)^2 = a^2 + b^2 - 2ab$
3. $a^2 - b^2 = (a + b)(a - b)$
4. $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$
5. $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$
6. $(a - b)^3 = a^3 - b^3 - 3ab(a - b)$
7. $(a + b)^3 = a^3 + b^3 + 3ab(a + b)$
8. $a^3 + b^3 + c^3 - 3abc = (a + b + c)(a^2 + b^2 + c^2 - ab - bc - ca)$
9. $(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca)$
10. If $a + b + c = 0$, then $a^3 + b^3 + c^3 - 3abc = 0$

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