



# FlowHivee Algebra Formula Notes

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## Basic Algebra Formulas

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

