

CLASS - 01

# **BASIC MATHS FORMULAS**

**FOR ALL EXAMS**

**Algebraic formulas**



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1.  $a^2 - b^2 = (a - b)(a + b)$

2.  $a^2 + b^2 = (a + b)^2 - 2ab$

3.  $(a + b)^2 = a^2 + b^2 + 2ab$

4.  $(a - b)^2 = a^2 + b^2 - 2ab$

5.  $(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$

6.  $(a - b - c)^2 = a^2 + b^2 + c^2 - 2ab + 2bc - 2ca$



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$$7. (a + b)^3 = a^3 + b^3 + 3a^2b + 3ab^2$$

$$8. (a - b)^3 = a^3 - b^3 - 3a^2b + 3ab^2$$

$$9. a^3 - b^3 = (a - b)(a^2 + ab + b^2)$$

$$10. a^3 + b^3 = (a + b)(a^2 - ab + b^2)$$

$$11. (a + b)^4 = a^4 + b^4 + 4a^3b + 6a^2b^2 + 4ab^3$$

$$12. (a - b)^4 = a^4 + b^4 - 4a^3b + 6a^2b^2 - 4ab^3$$