



# Mathematics Formulae



Useful for : UPSC CSAT, SSC, Banking, Railway, IIT, Engineering & All Other Competitive Examinations

**Algebraic Formulae or Expansion Formulae**

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

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

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

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

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

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

$$(a+b+c)^3 = a^3 + b^3 + c^3 + 3a^2b + 3a^2c + 3ab^2 + 3b^2c + 3ac^2 + 3bc^2 + 6abc$$

$$(a-b+c)^3 = a^3 - b^3 + c^3 + 3a^2b - 3a^2c + 3ab^2 - 3b^2c + 3ac^2 - 3bc^2 + 6abc$$

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

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

**Factorial Formulae or Permutation Formulae**

$$n! = n \times (n-1) \times (n-2) \times \dots \times 1$$

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**Value of Squares**

$$1^2 + 2^2 + 3^2 + \dots + n^2 = \frac{n(n+1)(2n+1)}{6}$$

$$1^3 + 2^3 + 3^3 + \dots + n^3 = \left(\frac{n(n+1)}{2}\right)^2$$

**Rules for Operating Integers Sign**

Operation	Sign	Result
+	+	+
+	-	-
-	+	-
-	-	+

**Binomial Formulae**

$$(a+b)^n = \sum_{k=0}^n \binom{n}{k} a^{n-k} b^k$$

$$(a-b)^n = \sum_{k=0}^n \binom{n}{k} a^{n-k} (-b)^k$$

**Coordinate Geometry**

Distance between two points  $(x_1, y_1)$  and  $(x_2, y_2)$  is  $\sqrt{(x_2-x_1)^2 + (y_2-y_1)^2}$

Area of a triangle with vertices  $(x_1, y_1)$ ,  $(x_2, y_2)$ , and  $(x_3, y_3)$  is  $\frac{1}{2} |x_1(y_2-y_3) + x_2(y_3-y_1) + x_3(y_1-y_2)|$

**Arithmetic Progression**

Sum of first  $n$  terms:  $S_n = \frac{n}{2} [2a + (n-1)d]$

Sum of first  $n$  terms:  $S_n = \frac{n}{2} (a_1 + a_n)$

**Circle**

Area of a circle:  $A = \pi r^2$

Circumference of a circle:  $C = 2\pi r$

**Angle Theorem**

Sum of angles in a triangle is  $180^\circ$ .

Angles in a straight line sum to  $180^\circ$ .

**Set of Numbers**

Natural numbers:  $\mathbb{N}$

Whole numbers:  $\mathbb{W}$

Integers:  $\mathbb{Z}$

Rational numbers:  $\mathbb{Q}$

Real numbers:  $\mathbb{R}$

**Labels of Circles**

Center, Radius, Diameter, Chord, Arc, Sector, Segment, Tangent, Secant.

**Area of Polygons**

Area of a square:  $A = s^2$

Area of a rectangle:  $A = l \times b$

Area of a triangle:  $A = \frac{1}{2} \times b \times h$

**Area of Polygons**

Area of a parallelogram:  $A = b \times h$

Area of a trapezium:  $A = \frac{1}{2} (a+b) \times h$

Area of a circle:  $A = \pi r^2$

**Similar Figures and Solids**

Area ratio = (Scale factor) $^2$

Volume ratio = (Scale factor) $^3$

**Algebraic**

Factorization of quadratic equations.

Quadratic formula:  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

**Algebraic**

Binomial expansion.

Binomial theorem.

**Compositional**

Operations on sets.

Venn diagrams.

**Compositional**

Probability.

Permutation and combination.

**Compositional**

Statistics.

Mean, median, mode.

**Compositional**

Trigonometry.

Trigonometric identities.

**Compositional**

Calculus.

Differentiation and integration.

**Compositional**

Calculus.

Differentiation and integration.

**Number System**

Prime numbers.

Composite numbers.

Least common multiple (LCM).

Highest common factor (HCF).

**Number System**

Number line.

Operations on real numbers.

**Area and Perimeter**

Area of a square:  $A = s^2$

Area of a rectangle:  $A = l \times b$

Area of a triangle:  $A = \frac{1}{2} \times b \times h$

Figure	Area	Perimeter
Circle	$\pi r^2$	$2\pi r$
Sector	$\frac{\theta}{360} \times \pi r^2$	$2r + \frac{\theta}{180} \times \pi r$
Segment	$\frac{\theta}{360} \times \pi r^2 - \frac{1}{2} r^2 \sin \theta$	$2r + \frac{\theta}{180} \times \pi r$

Figure	Area	Perimeter
Triangle	$\frac{1}{2} \times b \times h$	$a + b + c$
Parallelogram	$b \times h$	$2(a+b)$
Trapezium	$\frac{1}{2} (a+b) \times h$	$a + b + c + d$

Figure	Area	Perimeter
Circle	$\pi r^2$	$2\pi r$
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# Formula One Mathematics

**Lei Huang**



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## **Table of Contents Formula One Mathematics**

1. Understanding the eBook Formula One Mathematics
  - The Rise of Digital Reading Formula One Mathematics
  - Advantages of eBooks Over Traditional Books
2. Identifying Formula One Mathematics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Formula One Mathematics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Formula One Mathematics
  - Personalized Recommendations

- Formula One Mathematics User Reviews and Ratings
- Formula One Mathematics and Bestseller Lists
- 5. Accessing Formula One Mathematics Free and Paid eBooks
  - Formula One Mathematics Public Domain eBooks
  - Formula One Mathematics eBook Subscription Services
  - Formula One Mathematics Budget-Friendly Options
- 6. Navigating Formula One Mathematics eBook Formats
  - ePub, PDF, MOBI, and More
  - Formula One Mathematics Compatibility with Devices
  - Formula One Mathematics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Formula One Mathematics
  - Highlighting and Note-Taking Formula One Mathematics
  - Interactive Elements Formula One Mathematics
- 8. Staying Engaged with Formula One Mathematics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Formula One Mathematics
- 9. Balancing eBooks and Physical Books Formula One Mathematics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Formula One Mathematics
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Formula One Mathematics
  - Setting Reading Goals Formula One Mathematics
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Formula One Mathematics
  - Fact-Checking eBook Content of Formula One Mathematics

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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