



Mathematics Formulae



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

Algebraic Formulae or Equations Formulae

$(a+b)^2 = a^2 + 2ab + b^2$
 $(a-b)^2 = a^2 - 2ab + b^2$
 $(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$
 $(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$
 $(a+b+c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$
 $(a-b-c)^2 = a^2 + b^2 + c^2 - 2ab - 2bc - 2ca$
 $(a+b)(a-b) = a^2 - b^2$
 $(a+b)(a^2 - ab + b^2) = a^3 + b^3$
 $(a-b)(a^2 + ab + b^2) = a^3 - b^3$
 $(a+b+c)(a^2 + b^2 + c^2 - ab - bc - ca) = a^3 + b^3 + c^3 - 3abc$
 $(a+b+c+d)^2 = a^2 + b^2 + c^2 + d^2 + 2ab + 2ac + 2ad + 2bc + 2bd + 2cd$
 $(a+b+c+d)^3 = a^3 + b^3 + c^3 + d^3 + 3(a^2b + a^2c + a^2d + b^2a + b^2c + b^2d + c^2a + c^2b + c^2d + d^2a + d^2b + d^2c) + 6abcd$

Working Formulae or Factorization Formulae

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

Value of Squares

$1^2 = 1$
 $2^2 = 4$
 $3^2 = 9$
 $4^2 = 16$
 $5^2 = 25$
 $6^2 = 36$
 $7^2 = 49$
 $8^2 = 64$
 $9^2 = 81$
 $10^2 = 100$
 $11^2 = 121$
 $12^2 = 144$
 $13^2 = 169$
 $14^2 = 196$
 $15^2 = 225$
 $16^2 = 256$
 $17^2 = 289$
 $18^2 = 324$
 $19^2 = 361$
 $20^2 = 400$

Rules for Operating Integers Sign

Positive **Negative** **Positive** **Negative**
 $+$ $+$ $+$ $-$
 $+$ $-$ $-$ $+$
 $-$ $+$ $+$ $-$
 $-$ $-$ $-$ $+$

Binomial Formulae

$(a+b)^2 = a^2 + 2ab + b^2$
 $(a-b)^2 = a^2 - 2ab + b^2$
 $(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$
 $(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$
 $(a+b+c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$
 $(a-b-c)^2 = a^2 + b^2 + c^2 - 2ab - 2bc - 2ca$
 $(a+b)(a-b) = a^2 - b^2$
 $(a+b)(a^2 - ab + b^2) = a^3 + b^3$
 $(a-b)(a^2 + ab + b^2) = a^3 - b^3$
 $(a+b+c)(a^2 + b^2 + c^2 - ab - bc - ca) = a^3 + b^3 + c^3 - 3abc$
 $(a+b+c+d)^2 = a^2 + b^2 + c^2 + d^2 + 2ab + 2ac + 2ad + 2bc + 2bd + 2cd$
 $(a+b+c+d)^3 = a^3 + b^3 + c^3 + d^3 + 3(a^2b + a^2c + a^2d + b^2a + b^2c + b^2d + c^2a + c^2b + c^2d + d^2a + d^2b + d^2c) + 6abcd$

Coordinate Geometry

The Cartesian coordinate system is a two-dimensional system of axes. The horizontal axis is called the x-axis and the vertical axis is called the y-axis. The origin is the point where the two axes intersect. The distance from the origin to a point is called the distance of the point from the origin. The distance from the origin to a point in the x-axis is called the x-coordinate and the distance from the origin to a point in the y-axis is called the y-coordinate. The coordinates of a point are written as (x, y).

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

Area of a triangle
 $P(x_1, y_1)$, $Q(x_2, y_2)$, $R(x_3, y_3)$
 $A = \frac{1}{2} |x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2)|$

Arithmetic Progression

An arithmetic progression (A.P.) is a sequence of numbers in which the difference between any two consecutive terms is constant. This constant difference is called the common difference (d). The first term is denoted by 'a'. The nth term of an A.P. is given by $T_n = a + (n-1)d$. The sum of the first n terms of an A.P. is given by $S_n = \frac{n}{2} [2a + (n-1)d]$ or $S_n = \frac{n}{2} (a + T_n)$.

Circle

A circle is a closed curve such that any line segment drawn from the center to the circumference is of equal length. This length is called the radius (r). The distance from the center to the circumference along the circumference is called the circumference (C). The area of a circle is given by $A = \pi r^2$ and the circumference is given by $C = 2\pi r$.

Equation of a circle
 Center (h, k) and radius r
 $(x-h)^2 + (y-k)^2 = r^2$

Angle Theorem

The angle subtended by an arc at the center of a circle is double the angle subtended by it at any point on the circumference. This is known as the angle at the center theorem.

The angle subtended by a diameter at the circumference is a right angle. This is known as the angle in a semicircle theorem.

Set of Numbers

Natural numbers: 1, 2, 3, 4, 5, ...
 Whole numbers: 0, 1, 2, 3, 4, 5, ...
 Integers: ..., -3, -2, -1, 0, 1, 2, 3, ...
 Rational numbers: $\frac{p}{q}$, where p and q are integers and q is not zero.
 Irrational numbers: $\sqrt{2}$, $\sqrt{3}$, π , etc.
 Real numbers: All rational and irrational numbers.
 Complex numbers: $a + bi$, where a and b are real numbers and i is the imaginary unit.

Labels of Circles

Center (O), Radius (r), Diameter (d), Chord, Arc, Sector, Segment, Tangent, Secant, Angle subtended at the center, Angle subtended at the circumference.

Area of Figures

Rectangle: $A = l \times b$
 Square: $A = s^2$
 Triangle: $A = \frac{1}{2} \times b \times h$
 Parallelogram: $A = b \times h$
 Trapezium: $A = \frac{1}{2} (a+b) \times h$
 Circle: $A = \pi r^2$
 Sector: $A = \frac{\theta}{360} \times \pi r^2$
 Segment: $A = \frac{r^2}{2} (\theta - \sin \theta)$

Trigonometry

Sine: $\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$
 Cosine: $\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$
 Tangent: $\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$
 Secant: $\sec \theta = \frac{1}{\cos \theta}$
 Cosecant: $\csc \theta = \frac{1}{\sin \theta}$
 Cotangent: $\cot \theta = \frac{1}{\tan \theta}$

Similar Figures and Solids

Similar figures have the same shape but not necessarily the same size. The ratio of corresponding sides of similar figures is called the scale factor. The area of similar figures is in the ratio of the square of their corresponding sides. The volume of similar solids is in the ratio of the cube of their corresponding sides.

Algebraic Identities

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

Natural numbers: 1, 2, 3, 4, 5, ...
 Whole numbers: 0, 1, 2, 3, 4, 5, ...
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 Irrational numbers: $\sqrt{2}$, $\sqrt{3}$, π , etc.
 Real numbers: All rational and irrational numbers.
 Complex numbers: $a + bi$, where a and b are real numbers and i is the imaginary unit.

Rules for Finding Missing Terms

In an Arithmetic Progression (A.P.), the sum of the terms equidistant from the beginning and the end is constant. This is known as the property of an A.P.

In a Geometric Progression (G.P.), the product of the terms equidistant from the beginning and the end is constant. This is known as the property of a G.P.

Trigonometry

Sine: $\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$
 Cosine: $\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$
 Tangent: $\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$
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Area and Perimeter

Rectangle: $A = l \times b$, $P = 2(l+b)$
 Square: $A = s^2$, $P = 4s$
 Triangle: $A = \frac{1}{2} \times b \times h$, $P = a+b+c$
 Parallelogram: $A = b \times h$, $P = 2(a+b)$
 Trapezium: $A = \frac{1}{2} (a+b) \times h$, $P = a+b+c+d$
 Circle: $A = \pi r^2$, $C = 2\pi r$
 Sector: $A = \frac{\theta}{360} \times \pi r^2$, $C = \frac{\theta}{360} \times 2\pi r$
 Segment: $A = \frac{r^2}{2} (\theta - \sin \theta)$, $C = r\theta$

| Figure | Area | Perimeter | Volume |
|---------------|--|------------------------------------|--------|
| Rectangle | $l \times b$ | $2(l+b)$ | |
| Square | s^2 | $4s$ | |
| Triangle | $\frac{1}{2} \times b \times h$ | $a+b+c$ | |
| Parallelogram | $b \times h$ | $2(a+b)$ | |
| Trapezium | $\frac{1}{2} (a+b) \times h$ | $a+b+c+d$ | |
| Circle | πr^2 | $2\pi r$ | |
| Sector | $\frac{\theta}{360} \times \pi r^2$ | $\frac{\theta}{360} \times 2\pi r$ | |
| Segment | $\frac{r^2}{2} (\theta - \sin \theta)$ | $r\theta$ | |

| Figure | Area | Perimeter | Volume |
|--|---|---------------|--|
| Cylinder | $2\pi r^2 + 2\pi rh$ | $2\pi r(r+h)$ | $\pi r^2 h$ |
| Cone | $\pi r^2 + \pi rl$ | $\pi r(r+l)$ | $\frac{1}{3} \pi r^2 h$ |
| Sphere | $4\pi r^2$ | $4\pi r^2$ | $\frac{4}{3} \pi r^3$ |
| hemisphere | $3\pi r^2$ | $4\pi r^2$ | $\frac{2}{3} \pi r^3$ |
| Frustum of a cone | $\pi (R^2 + r^2) + \pi (R+r)l$ | $2\pi (R+r)$ | $\frac{1}{3} \pi h (R^2 + Rr + r^2)$ |
| Frustum of a cylinder | $2\pi Rr + 2\pi R^2 + 2\pi r^2 + 2\pi (R+r)h$ | $2\pi (R+r)$ | $\pi Rr h$ |
| Frustum of a sphere | $\pi (R^2 + r^2) + \pi (R+r)l$ | $2\pi (R+r)$ | $\frac{1}{6} \pi h (3R^2 + 3Rr + r^2)$ |
| Frustum of a cone (slant height l) | $\pi (R^2 + r^2) + \pi (R+r)l$ | $2\pi (R+r)$ | $\frac{1}{3} \pi h (R^2 + Rr + r^2)$ |
| Frustum of a cylinder (slant height l) | $2\pi Rr + 2\pi R^2 + 2\pi r^2 + 2\pi (R+r)l$ | $2\pi (R+r)$ | $\pi Rr h$ |
| Frustum of a sphere (slant height l) | $\pi (R^2 + r^2) + \pi (R+r)l$ | $2\pi (R+r)$ | $\frac{1}{6} \pi h (3R^2 + 3Rr + r^2)$ |

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Formula One Mathematics

Camilla Rothe



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