

Class 10 Geometry Formulas List (Easy to Memorize)

Geometry Class 10 ka ek important subject hai jahan formulas ka strong grip hona bohat zaroori hota hai.

Basic Geometry Formulas:

Perimeter:

$$\text{Square} = 4 \times \text{side}$$

$$\text{Rectangle} = 2 (\text{length} + \text{width})$$

$$\text{Triangle} = a + b + c$$

Area:

$$\text{Square} = \text{side}^2$$

$$\text{Rectangle} = \text{length} \times \text{width}$$

$$\text{Triangle} = \frac{1}{2} \times \text{base} \times \text{height}$$

Triangle Formulas:

$$\text{Area} = \frac{1}{2} \times \text{base} \times \text{height}$$

Heron's Formula:

$$s = (a + b + c) / 2$$

$$\text{Area} = \sqrt{[s(s-a)(s-b)(s-c)]}$$

Pythagoras Theorem:

$$\text{Hypotenuse}^2 = \text{Base}^2 + \text{Perpendicular}^2$$

Circle Formulas:

$$\text{Circumference} = 2\pi r$$

$$\text{Area} = \pi r^2$$

$$\text{Diameter} = 2r$$

Surface Area & Volume:

Cube:

$$\text{Volume} = a^3$$

$$\text{Surface Area} = 6a^2$$

Cuboid:

Volume = length × width × height

Cylinder:

$$\text{Volume} = \pi r^2 h$$

Coordinate Geometry:

Distance Formula:

$$\sqrt{[(x_1 - x_2)^2 + (y_1 - y_2)^2]}$$

Midpoint:

$$((x_1 + x_2)/2, (y_1 + y_2)/2)$$

Trigonometry:

$$\sin\theta = \text{Perpendicular} / \text{Hypotenuse}$$

$$\cos\theta = \text{Base} / \text{Hypotenuse}$$

$$\tan\theta = \text{Perpendicular} / \text{Base}$$

Tips:

Daily revision karo, practice karo, aur short notes banao.