

Class 10 Math Formula Notes

Real Numbers

Concept	Formula
Euclid's Lemma	$a = bq + r$
HCF × LCM	Product of numbers

Polynomials

Concept	Formula
Sum of Zeroes	$-b/a$
Product of Zeroes	c/a

Quadratic Equations

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

Arithmetic Progression

Concept	Formula
nth Term	$a + (n-1)d$
Sum	$n/2 [2a + (n-1)d]$

Triangles

$$a^2 + b^2 = c^2$$

Trigonometry

$$\sin^2\theta + \cos^2\theta = 1$$

Circles

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

Surface Areas & Volumes

Shape	Formula
Cylinder	$\pi r^2 h$
Cone	$1/3 \pi r^2 h$
Sphere	$4/3 \pi r^3$

Statistics

$$\text{Mean} = \Sigma fx / \Sigma f$$

Probability

$$P(E) = \text{Favorable} / \text{Total}$$