

Objective: To create a web page that displays the mathematical formula in tabular format for the following:

- a. Area of a Circle
- b. Trigonometric identities with angle(α)
- c. Square of $(a+b)$
- d. Cube of $(a+b)$
- e. Difference Between Squares of Two Variables
- f. Time Period of a Pendulum
- g. Gravitational Force
- h. Kinetic Energy
- i. Relation Between Mass And Energy
- j. Relation Between density, mass and volume.

Theory:

In this webpage we have displayed the various formulas in tabular format using HTML.

We have used various tags and attributes and we have also used CSS to give layout to our web page. In some formulas we have also used entities as well.

Output:

Use of entities in formula writing

S.NO	NAME OF THE FORMULA	FORMULAS
1	Area of a circle	$A = \pi r^2$
2	Square of (a+b)	$(a+b)^2 = a^2 + b^2 + 2ab$
3	Cube of (a+b)	$(a+b)^3 = a^3 + b^3 + 3a^2b + 3ab^2$
4	Difference between square of two variables	$(a^2 - b^2) = (a+b)(a-b)$
5	Time period of pendulum	$T = 2\pi\sqrt{l/g}$
6	Gravitational Force	$F = Gm_1m_2/r^2$
7	Kinetic Energy	$K = \frac{1}{2}mv^2$
8	Relation between mass & energy	$E = mc^2$
9	Relation between density, mass & volume	$\rho = m/v$
10	Trigonometry Identities	$\sin^2\alpha + \cos^2\alpha = 1$
		$\sec^2\alpha - \tan^2\alpha = 1$