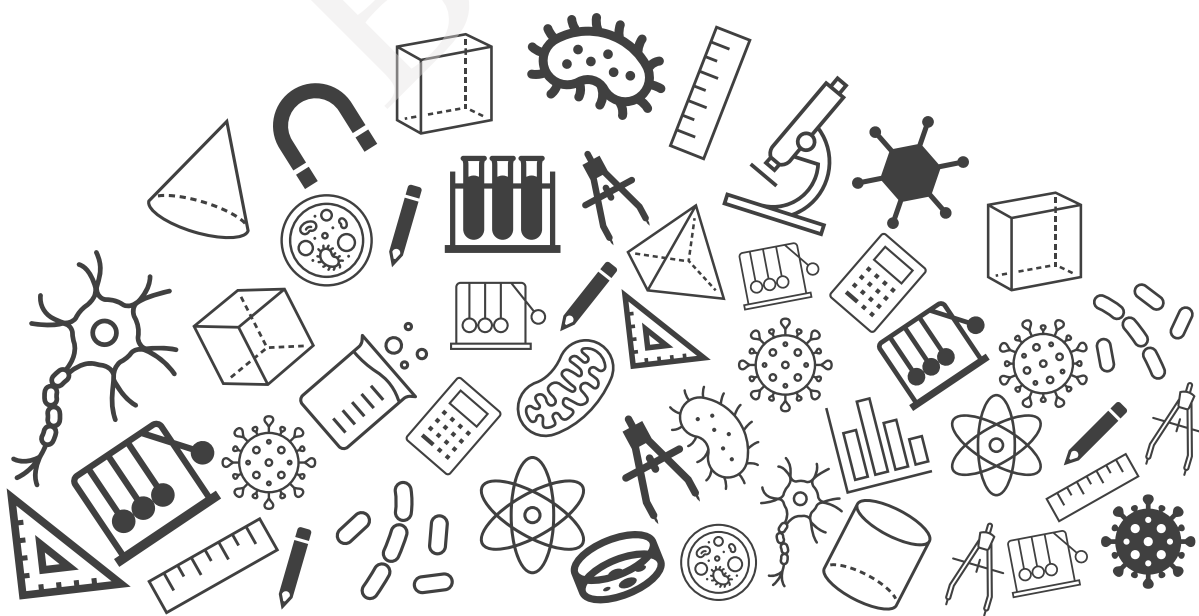




Grade 09

Mathematics Chapter Notes

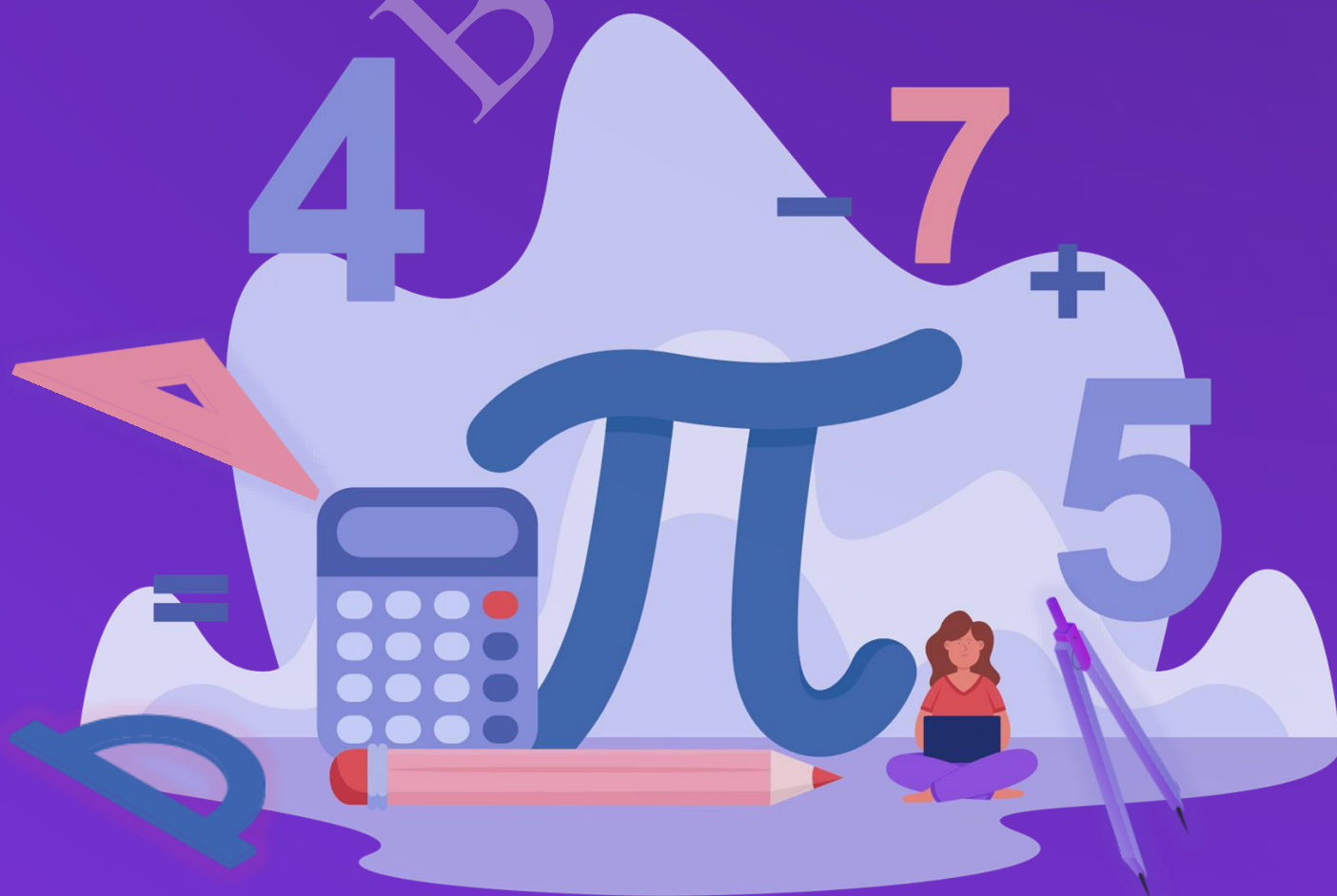


BYJU'S Classes

CHAPTER NOTES

Linear Equations in Two Variables

Grade 09



Topics to be Covered

1. Linear Equations in Two Variables

2. Solution of a Linear Equation

1. Linear Equations in Two Variables

An equation of the form $ax + by + c = 0$, where a , b and c are real numbers, such that a and b are not both zero, is called a linear equation in two variables.

Example:

$$x - y = 2$$

Rearranging the equation in the form

$$ax + by + c = 0;$$

$$1.x - 1.y - 2 = 0 \text{ where,}$$

$$a = 1, b = -1, \text{ and } c = -2.$$

2. Solution of a Linear Equation

$$4x + 3y = 12$$

The solution to the above equation can be determined by following the below steps:

Step 1: Substitute $x = 0$; we get

$$3y = 12$$

$$y = 4$$

So $(0, 4)$ is the solution of the given equation.

Step 2: Substitute $y = 0$; we get

$$4x = 12$$

$$x = 3$$

So $(3, 0)$ is the solution of the given equation.

Similarly, we can find multiple solutions for the given equation by substituting any value for one variable and finding the value for other variable.



A linear equation in two variables has infinitely many solutions.

Mind Map

