

Chapter 12

HERON'S FORMULA

Heron's Formula:

The formula given by heron about the area of a triangle is known as “Heron's” formula.

$$\text{i.e., Area of a triangle} = \sqrt{S(S-a)(S-b)(S-c)}.$$

Where a , b, c are the sides of the triangle and

$S = \text{semi perimeter} = \frac{a+b+c}{2} = \text{half of the perimeter of triangle.}$

NOTE:

- This formula is applicable to all types of triangles.
- This formula is helpful where it is not possible to find the height of the triangle easily.