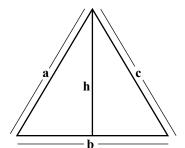
CHAPTER-10

HERON'S FORMULA



Mind Map

Area of triangle (general formula) = $\frac{1}{2} \times b \times h$ where b = baseand h = height

Area of triangle (Herons formula) = $\sqrt{s(s-a)(s-b)(s-c)}$ where s is semi-perimeter and $s = \frac{a+b+c}{2}$ a, b and c are sides of a triangles

Keys points

- When base and height of a triangle are known, then area of triangle is found using general formula.
- Herons formula is used to find area of triangle when all the three sides of triangle are known.
- All sides of an equilateral triangle are equal.
- An isosceles triangle has two equal sides while a scalene triangle has no side equal.
- The sum of all the sides is called the perimeter.
- (s-a)+(s-b)+(s-c)=3s-(a+b+c)=s
- Herons formula can be used to find the area of any kind of triangle.

IX – Mathematics