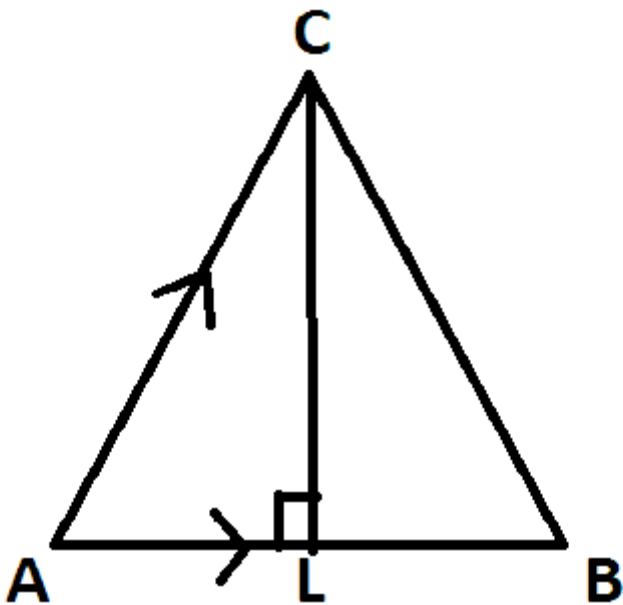


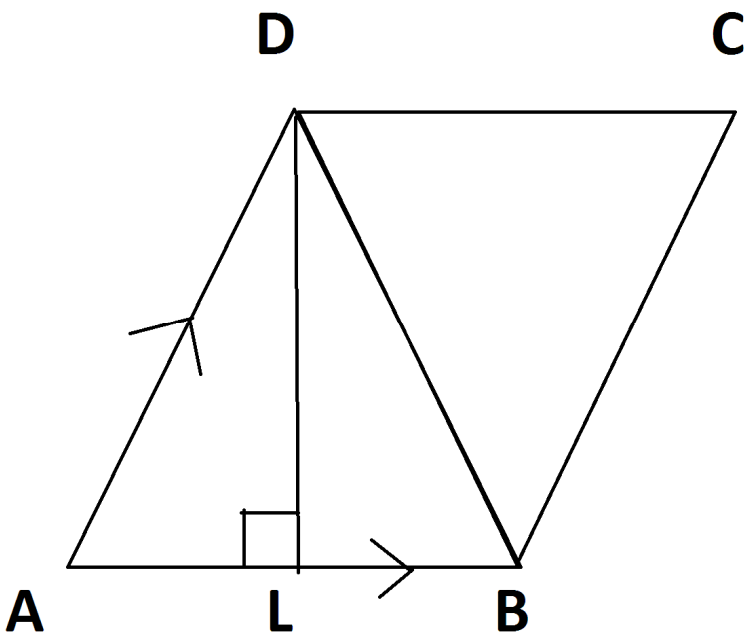
Area of the  $\Delta ABC$  is given by  $\frac{1}{2} |\vec{a} \times \vec{b}|$  and it is called vector area of  $\Delta ABC$ .



(13) Area of Parallelogram

Let us consider ||gm ABCD in which  $\overrightarrow{AB} = \vec{a}$  &  $\overrightarrow{AD} = \vec{b}$

Area of the ||gm ABCD is given by  $|\vec{a} \times \vec{b}|$



(14) Area of Quadrilateral

Area of the quad. ABCD is given by  $\frac{1}{2} |\overrightarrow{AC} \times \overrightarrow{BD}|$

