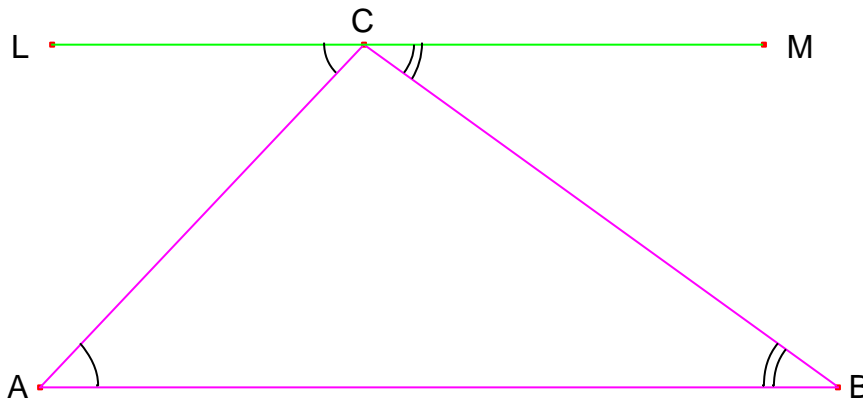


## The Sum of the Angles of a Triangle

Objective: To prove that the sum of the angles of a triangle equals to  $180^\circ$



Proof:

Draw line LM parallel side AB of the triangle. Now,

1. Angle LCA = Angle BAC                      Why?
2. Angle MCB = Angle ABC                      Why?
3. Angle ACB is common to both the straight angle and the triangle.
4. Therefore, the sum of the angles of the triangle is  $180^\circ$ . Why?