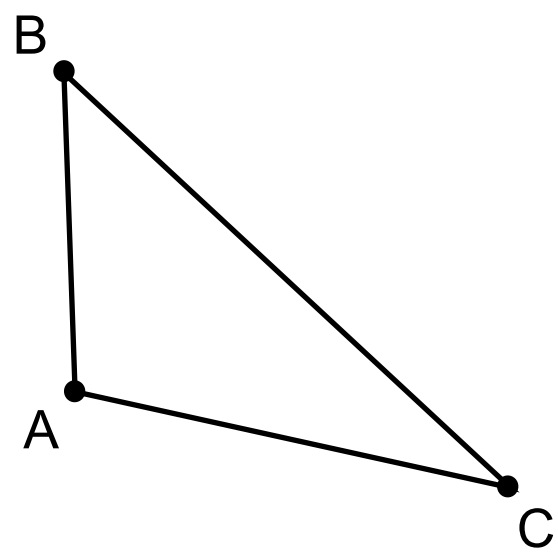




**Lemma 3.5.3**

In neutral geometry, for any  $\triangle ABC$  there exists  $\triangle A_1B_1C_1$  such that the two triangles have the same angle sums but  $m\angle A_1 \leq \frac{1}{2}(m\angle A)$ .





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