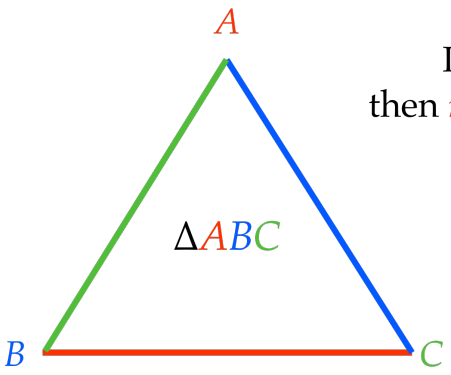
Equilateral Triangle Postulates

Name _____

Date _____ Period _____

A triangle is equilateral if and only if it is equiangular.

If a triangle is equilateral, then it is equiangular.



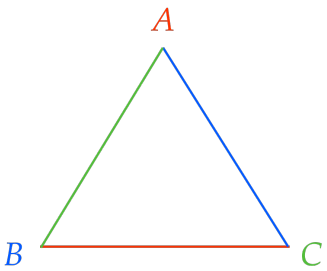
If $AB = AC = BC$,
then $m\angle A = m\angle B = m\angle C$

Statements	Reasons

Given: ΔABC

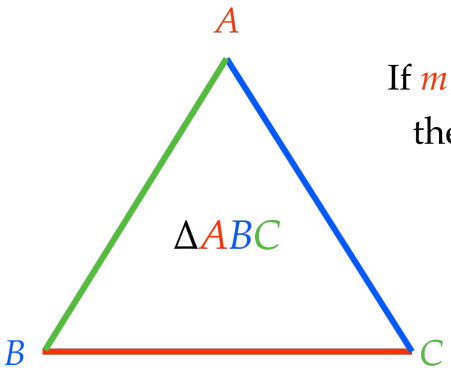
$AB = AC = BC$

Prove: $m\angle A = m\angle B = m\angle C$



A triangle is equilateral if and only if it is equiangular.

If a triangle is equiangular, then it is equilateral.



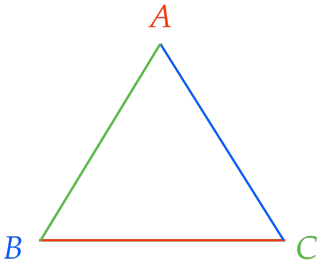
If $m\angle A = m\angle B = m\angle C$,
then $AB = AC = BC$

Statements	Reasons

Given: ΔABC

$m\angle A = m\angle B = m\angle C$

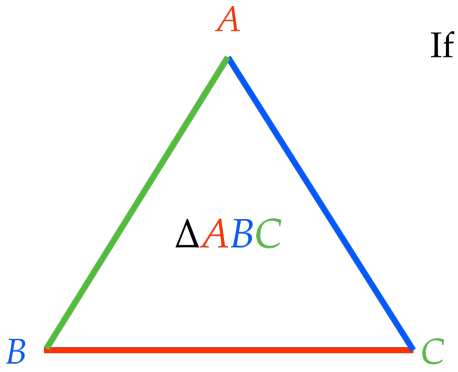
Prove: $AB = AC = BC$



A triangle is equilateral if and only if it is equiangular.

If a triangle is equilateral, then it is equiangular.

If $AB = AC = BC$, then $m\angle A = m\angle B = m\angle C$



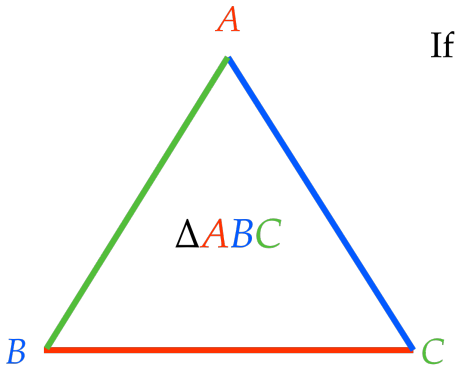
If a triangle is equiangular, then it is equilateral.

If $m\angle A = m\angle B = m\angle C$, then $AB = AC = BC$

Each angle of an equilateral triangle measures 60°.

If a triangle is equilateral, then it is equiangular.

If $AB = AC = BC$, then $m\angle A = m\angle B = m\angle C$



If a triangle is equiangular, then it is equilateral.

If $m\angle A = m\angle B = m\angle C$, then $AB = AC = BC$

then $m\angle A = 60°$, $m\angle B = 60°$, $m\angle C = 60°$

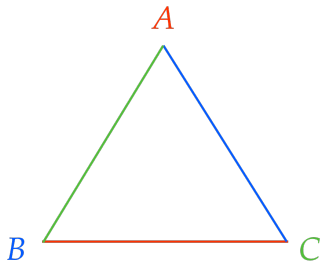
Statements	Reasons

Given: ΔABC is equilateral

Prove: $m\angle A = 60°$

$m\angle B = 60°$

$m\angle C = 60°$

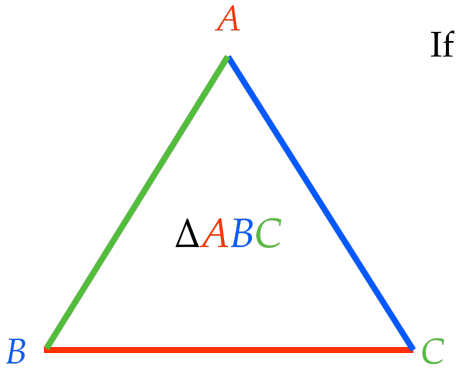


A triangle is equilateral if and only if it is equiangular.

Each angle of an equilateral triangle measures 60°.

If a triangle is equilateral, then it is equiangular.

If $AB = AC = BC$, then $m\angle A = m\angle B = m\angle C$



If a triangle is equiangular, then it is equilateral.

If $m\angle A = m\angle B = m\angle C$, then $AB = AC = BC$

then $m\angle A = 60°$, $m\angle B = 60°$, $m\angle C = 60°$