SSS

ASA

AAS

AAA

Other terms

to know

SAS

SSA

HL

Reflexive Property: a shared side is congruent to itself (used in proofs)

“Included” : in between

Can mark shared sides, vertical angles, and alternate interior angles of parallel lines;

Two pairs of congruent sides and the included angle

SAS guarantees congruence

Two pairs of congruent sides and a non-included angle

SSA does NOT guarantee congruence

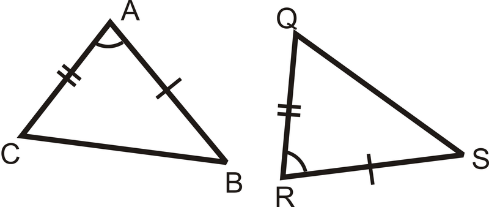
A pair of hypotenuses and a pair of legs in 2 right triangles

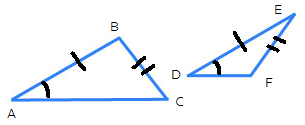
HL guarantees congruence

(Right Triangles Only)

by the reflexive property

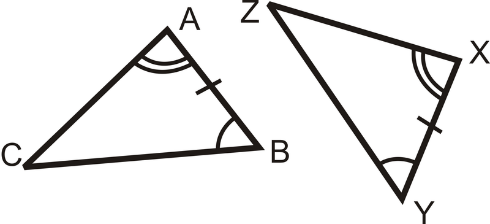
CPCTC: congruent triangles have congruent parts (used in proofs)

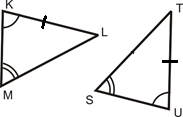














­­Three pairs of congruent sides in two triangles

SSS guarantees congruence

Two pairs of congruent angles and the included side

ASA guarantees congruence

Two pairs of angles and a non-included side.

AAS guarantees congruence

Three pairs of congruent angles

AAA does NOT guarantee congruence. Could be “similar”