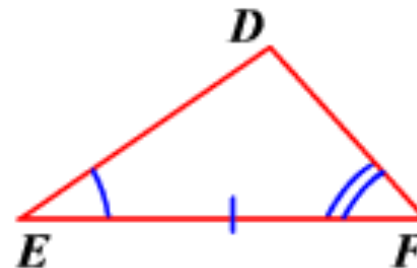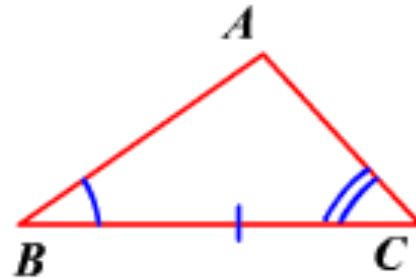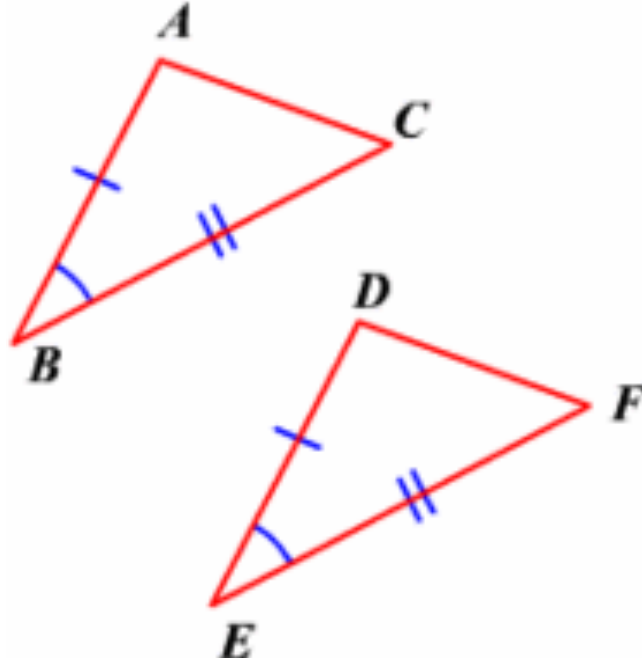# ASA (angle-side-angle) Congruence Theorem

If two angles and the included side of one triangle are congruent to two angles and the included side of another triangle, then the triangles are congruent.
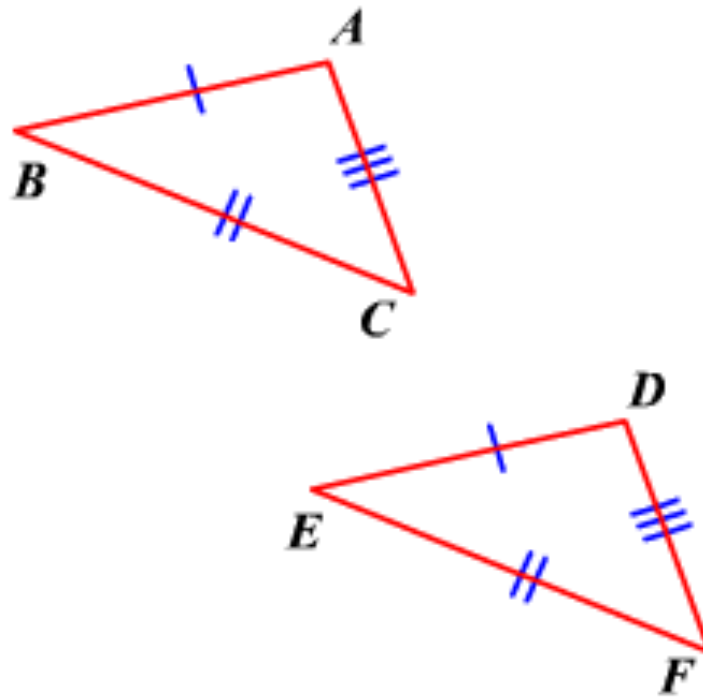
SAS (side-angle-side) Congruence Theorem

If two sides and the included angle of one triangle are congruent to two sides and the included angle of another triangle, then the triangles are congruent.

# SSS (side-side-side) Congruence Theorem

If three sides of one triangle are congruent to three sides of another triangle, then the triangles are congruent.

AAS (angle-angle-side) Congruence Postulate

If two angles and a non-included side of a triangle are congruent to two angles and the corresponding non-included side of another triangle, then the two triangles are congruent.
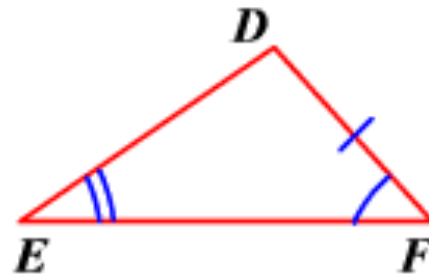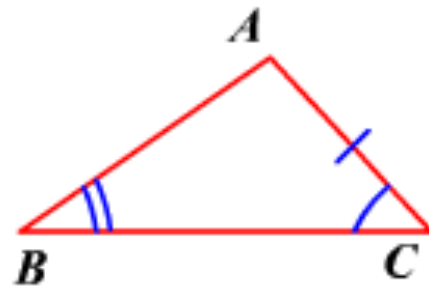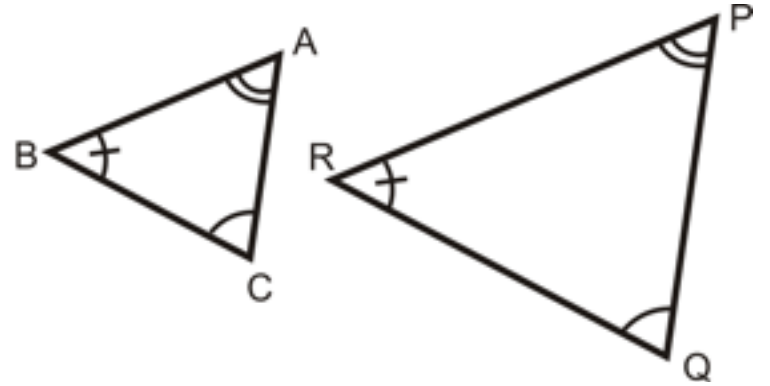
HL (hypotenuse-leg) Congruence Theorem

If the hypotenuse and a leg of one right triangle are congruent to the hypotenuse and a leg of another right triangle, then the triangles are congruent.
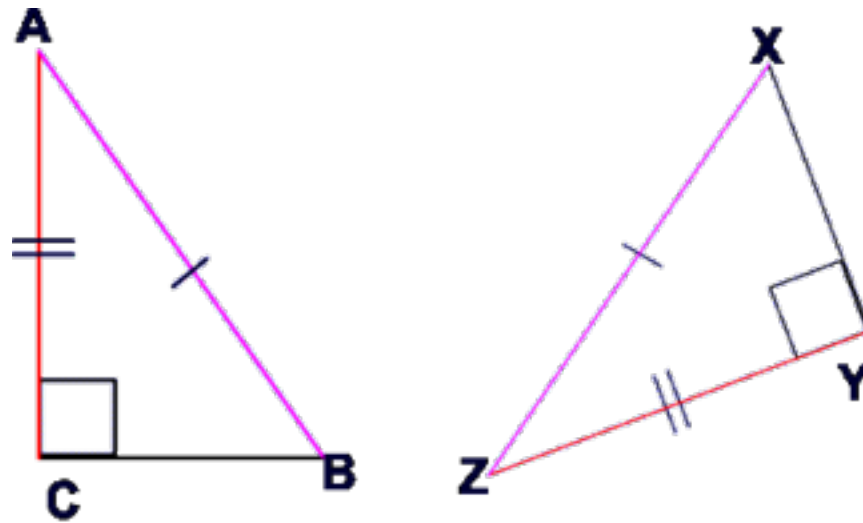
False Shortcuts

AAA (angle-angle-angle) does NOT work to prove triangle congruence.

SSA (side-side-angle) does NOT work to prove triangle congruence.