

Proving Triangles Congruent and CPCTC - NOTES

The definition of congruent triangles states two triangles are congruent *if and only if* their corresponding parts are congruent. *If and only if* is used when both the conditional and its converse are true. Therefore the converse is true:

Corresponding parts of congruent triangles are congruent. (CPCTC)

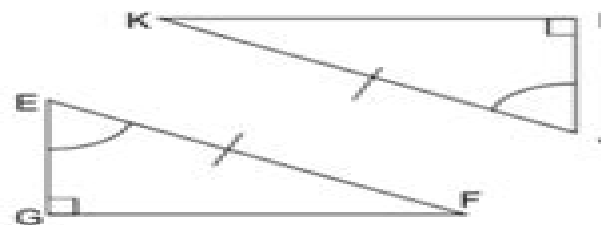
This can be used to prove parts of triangles congruent by first proving the triangles congruent.

Examples: Justify the following using two column or flow proofs.

1. Prove: $\angle D \cong \angle B$



2. Prove: $\overline{EG} \cong \overline{JI}$



Teacher Notes:

1. Show triangles congruent by SSS and $\angle D \cong \angle B$ by CPCTC.
2. Show triangles congruent by AAS or HA and $\overline{EG} \cong \overline{JI}$ by CPCTC.

Geometry Hs Mathematics Unit 5 Lesson 1 Tesccc 1

Jin-Ying Zhang



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