



Math for the people, by the people.

CPCTC

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Synonym	corresponding parts of congruent triangles are congruent

“CPCTC” is an acronym which stands for “corresponding parts of <http://planetmath.org/CorrespondingPartsOfCongruentTriangles> are congruent.” In other , if

$$\triangle ABC \cong \triangle DEF, \tag{1}$$

then all of the following are true:

- $\angle A \cong \angle D$;
- $\overline{AB} \cong \overline{DE}$;
- $\angle B \cong \angle E$;
- $\overline{BC} \cong \overline{EF}$;
- $\angle C \cong \angle F$;
- $\overline{AC} \cong \overline{DF}$.

Note. The notation in (1) indicates that the isomorphism in question maps $A \mapsto D$, $B \mapsto E$, and $C \mapsto F$.