Geometry	
Name:	

Corresponding Parts of Congruent Triangles are Congruent

When two triangles are two triangles are also	, all corresponding parts* of the
*Corresponding parts include the triangle (the pre-image) to the next (th	and from one me image).
• A	matches the parts in
the two figures by naming them	in a order.
Example:	F D E
Steps for Writing Your Cong	gruence Statements for Triangles
1: Write a match up the	for the two triangles, making sure to
2: Use the	you just wrote to list the pairs of
3: Use the same congruent	from step 1 to list the pairs of

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Example one: Use the following triangles to write a congruence statement and name the congruent parts.



Example two: Use the angles and sides to mark the given triangle and write a congruence statement for the two triangles.

L Q	Congruence Statement:	
ме	<u>Angles</u>	<u>Sides</u>
	$\angle L \cong \angle Q$	$\overline{LM} \cong \overline{QP}$
	$\angle M \cong \angle P$	$\overline{MN} \cong \overline{PR}$
R	$\angle N \cong \angle R$	$\overline{NL} \cong \overline{RQ}$

Example three: Use the congruence statement to list all congruent sides and angles. Mark the given triangles as well.



Corresponding Parts of Congruent Triangles are Congruent Theorem (CPCTC)

CPCTC Theorem: If two triangles are _____, then corresponding ______ are _____ and corresponding ______ are congruent.
 CONVERSE: IF six pairs of corresponding ______ and corresponding ______ are congruent, THEN you can conclude that the two ______ are congruent.

Example:



Example: For which values of x are the triangles congruent?

