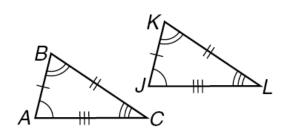
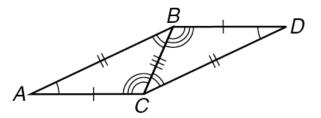
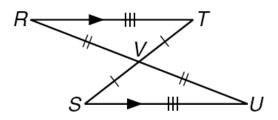
Name	Notes 4-3 p. 1 Date
4-3 Corresponding Parts of Congruent Triangles	
Triangles that have the and	are
Two triangles are if and only if   corresponding are and   corresponding are	of of
The that are $\cong$ must be written in the in a triangle congruence statement.	
Angles are $\cong$ : $\angle A \cong \angle R$ , $\angle B \cong \angle S$ , $\angle C \cong \angle T$	
Sides are $\cong : \overline{AB} \cong \overline{RS}, \overline{BC} \cong \overline{ST}, \overline{CA} \cong \overline{TR}$	
CPCTC: of are	
Identify Congruence Transformations: If two triangles can, or one of the triangles and These are called of the figure. It is a symbols to distinguish between an original $\Delta DEF$ and a figure of the figure of the figure of the figure.	d they will still be because they common to use prime
E Slide F D' F' D' D' D' D' D' D' D' D' D' D	E D flip HH F HH F
D' Turn F' F' E'	E'

Identify the congruent triangles in each figure and name the corresponding congruent parts.

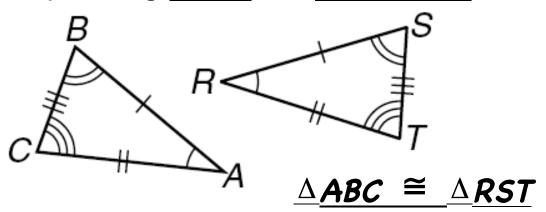






Corresponding Parts of Congruent Triangles

Triangles that have the <u>same size</u> and <u>same</u> <u>shape</u> are <u>congruent</u> triangles. Two triangles are <u>congruent</u> if and only if <u>all</u> <u>three pairs</u> of corresponding <u>angles</u> are <u>congruent</u> and <u>all three pairs</u> of corresponding <u>sides</u> are <u>congruent</u>.

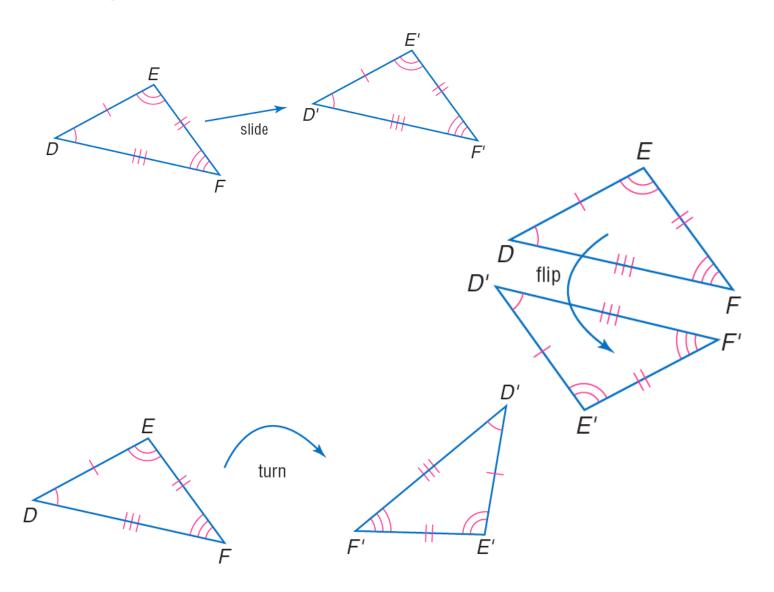


The <u>angles</u> that are  $\cong$  must be written in the <u>order of congruence</u> in a triangle congruence statement.

Angles are  $\cong$ :  $\angle A \cong \angle R$ ,  $\angle B \cong \angle S$ ,  $\angle C \cong \angle T$ 

Sides are  $\cong$ :  $\overline{AB} \cong \overline{RS}$ ,  $\overline{BC} \cong \overline{ST}$ ,  $\overline{CA} \cong \overline{TR}$ 

CPCTC: **corresponding parts** of **congruent triangles** are **congruent**. Identify Congruence Transformations: If two triangles are <u>congruent</u>, you can <u>slide</u>, <u>flip</u>, or <u>turn</u> one of the triangles and they will still be <u>congruent</u>. These are called <u>congruence</u> <u>transformations</u> because they do not change the <u>size</u> or <u>shape</u> of the figure. It is common to use prime symbols to distinguish between an original  $\Delta DEF$  and a transformed  $\Delta D'E'F'$ .



Identify the congruent triangles in each figure and name the corresponding congruent parts.

