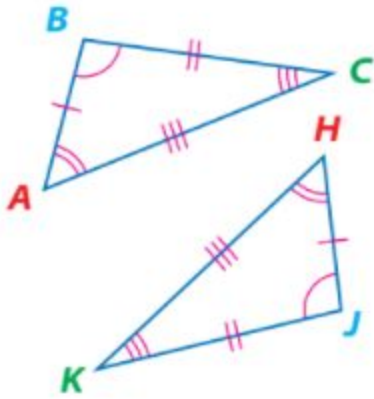


Congruent:

Congruent Polygon:

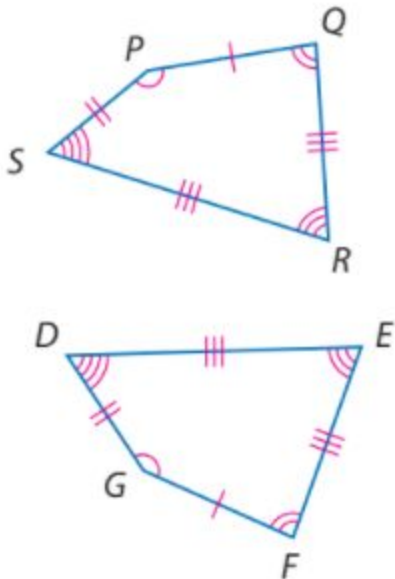
If and only if

Congruence Statement:

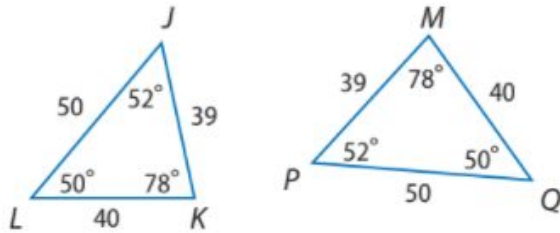


1. Identify all the congruent parts of the polygons below and write a congruence statement:

a.

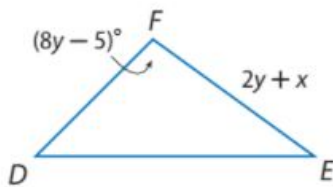
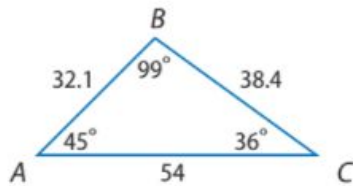


b.

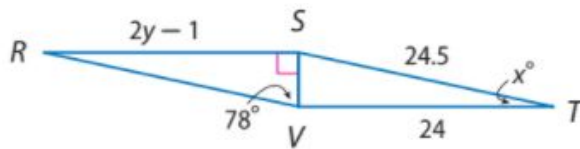


Using CPCTC:

2. In the diagram $\triangle ABC \cong \triangle DFE$. Find the values of x and y



3. In the diagram $\triangle RVS \cong \triangle TVS$. Find the values of x and y



<p>Third Angles Theorem</p>	<p>If two angles of one triangle are congruent to two angles in a second triangle then the third angles of the triangles are congruent</p>	
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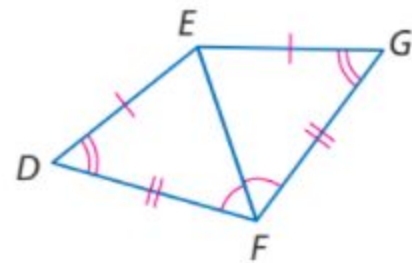
Theorem 4.4 Properties of Triangle Congruence

Reflexive Property of Triangle Congruence
 $\triangle ABC \cong \triangle ABC$

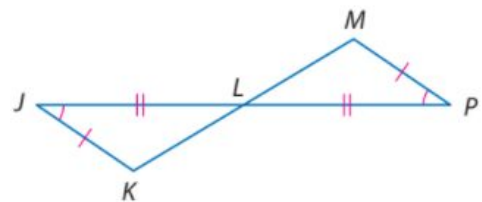
Symmetric Property of Triangle Congruence
 If $\triangle ABC \cong \triangle EFG$, then $\triangle EFG \cong \triangle ABC$.

Transitive Property of Triangle Congruence
 If $\triangle ABC \cong \triangle EFG$ and $\triangle EFG \cong \triangle JKL$, then $\triangle ABC \cong \triangle JKL$.

4. Determine if $\triangle DEF \cong \triangle GEF$



5. Determine if $\triangle JKL \cong \triangle PML$



6. Determine if $\triangle AEB \cong \triangle CED$:

