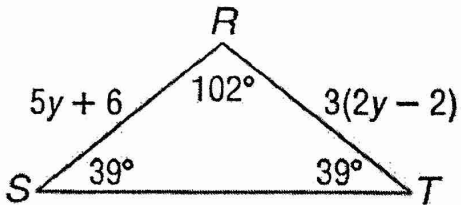
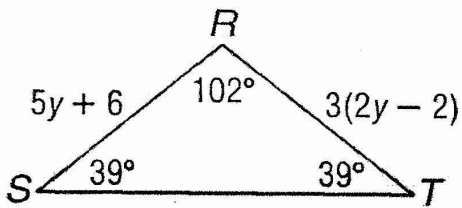


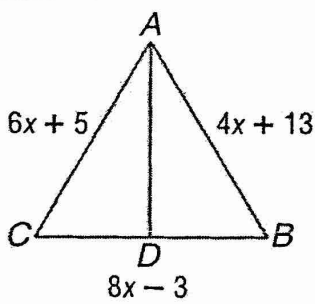
**Example 1:** Is  $\triangle SRT$  acute, equiangular, obtuse or right? How do you know?



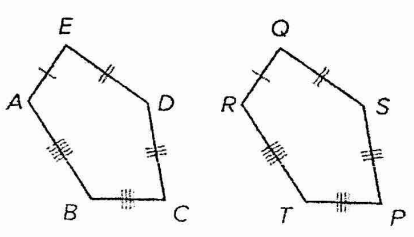
**Example 2:** Find  $y$ , if  $\triangle SRT$  is isosceles and  $\overline{RS} \cong \overline{RT}$ .



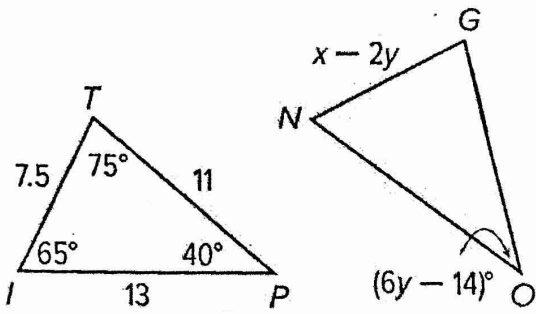
**Example 3:** Find  $x$  if  $\triangle ABC$  is an equilateral triangle.



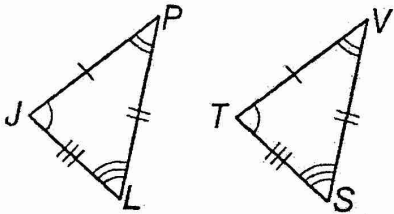
**Example 4:** Given that they polygons are congruent, write a congruence statement for the polygons.



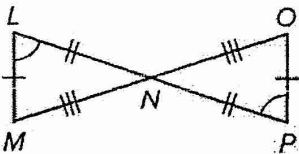
**Example 5:**  $\triangle ITP \cong \triangle NGO$ . Find the values of  $x$  and  $y$ .



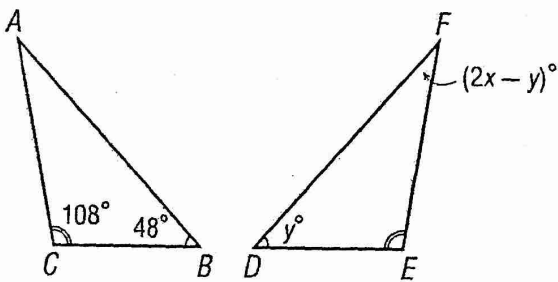
**Example 6:** Write a congruence statement for the triangles, if they are congruent.



**Example 7:** Are the two triangles congruent? How do you know?

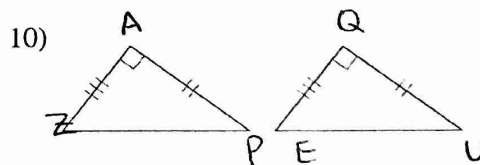
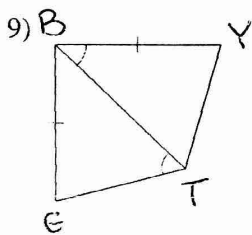
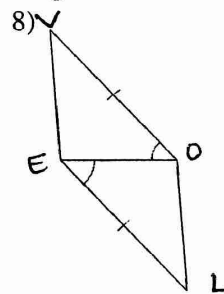
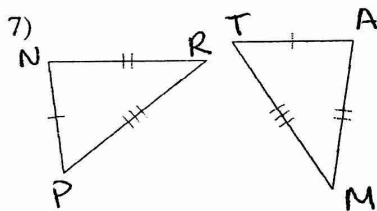
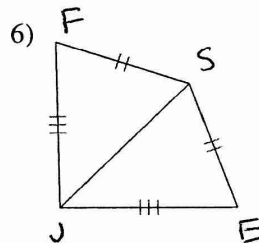
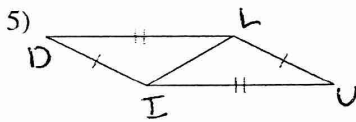
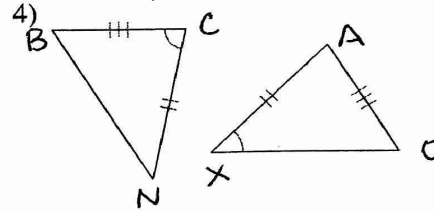
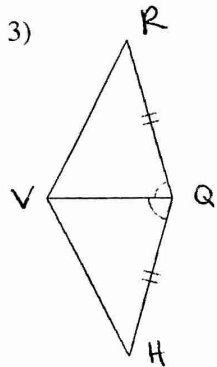
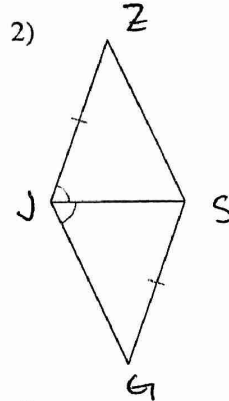
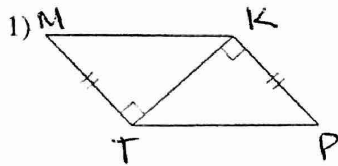


**Example 8:**  $\triangle ABC \cong \triangle FDE$ , solve for  $x$  and  $y$ .



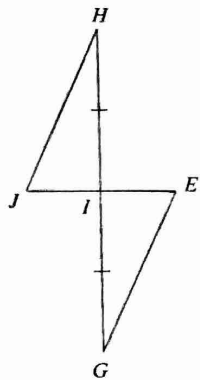
SSS and SAS Congruence

State if the two triangles are congruent. If they are, state how you know.

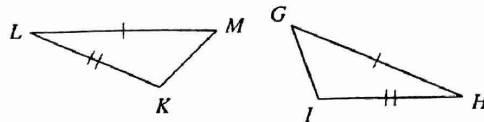


State what additional information is required in order to know that the triangles are congruent for the reason given.

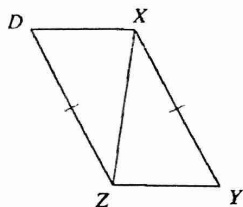
11) SAS



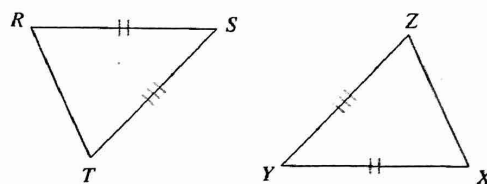
12) SAS



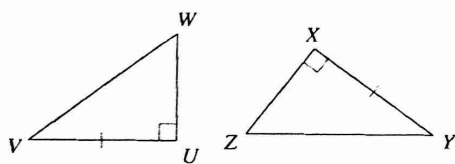
13) SSS



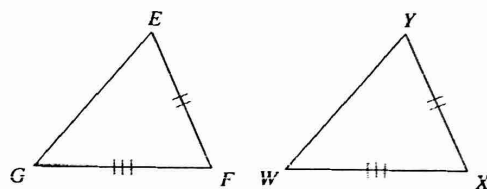
14) SSS



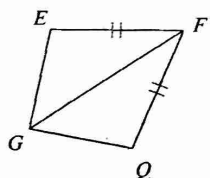
15) SAS



16) SSS



17) SAS



18) SAS

