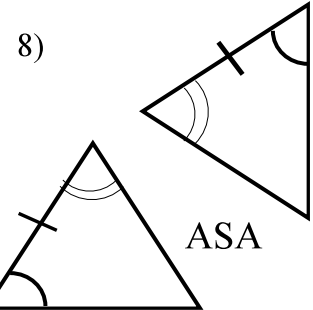
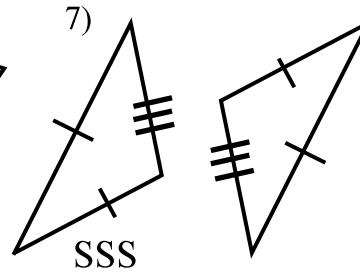
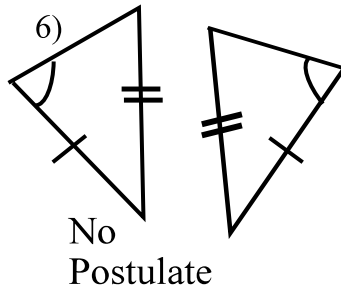
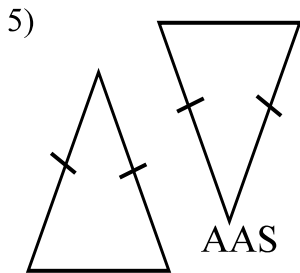
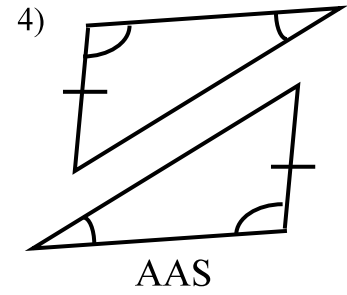
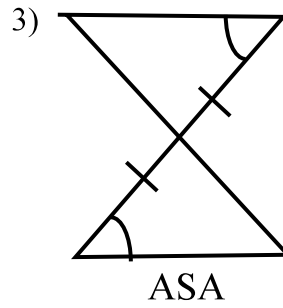
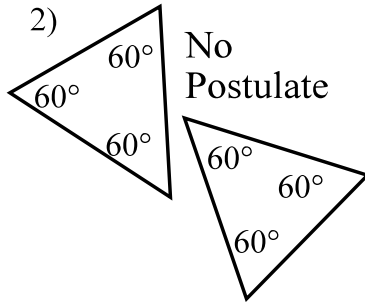
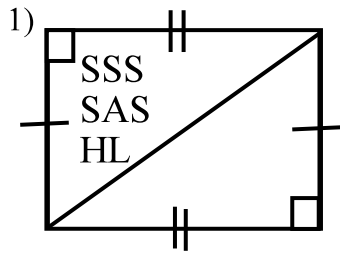


Triangle Congruence Postulates 3  
Geometry

KEY

If the triangles are congruent, name the postulate(s) that prove it.



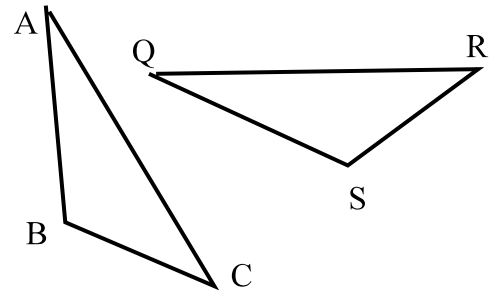
We want to know if  $\triangle ABC \cong \triangle QSR$ .

9) We know that  $\angle B \cong \angle S$ . What other information would make it possible to use ASA?

$\overline{BC} \cong \overline{SR}, \angle C \cong \angle R$

10) We know that  $\overline{SR} \cong \overline{BC}$ . What other information would make it possible to use SSS?

$\overline{CA} \cong \overline{RQ}, \overline{AB} \cong \overline{QS}$



11) We know that  $\overline{AC} \cong \overline{QR}$ . What other information would make it possible to use SAS?

$\angle A \cong \angle Q, \overline{AB} \cong \overline{QS}$

Use congruence markings to show the congruent parts in each triangle, then fill in the blanks.

12)  $\triangle YVX$  is isosceles  
 $\overline{YX} \perp \overline{VZ}$

13)  $\overline{SU}$  is the angle bisector of  $\angle RUT$   
 $\overline{RU} \cong \overline{TU}$

14)  $\triangle CDF$  is equilateral  
E is the midpoint of  $\overline{DF}$

$\triangle VXZ \cong \triangle VYZ$  by HL.

$\triangle RSU \cong \triangle TSU$  by SAS.

$\triangle DEC \cong \triangle FEC$  by SSS

