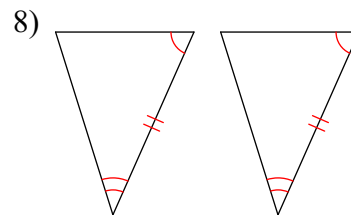
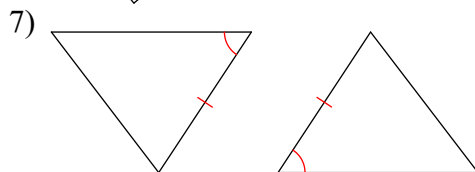
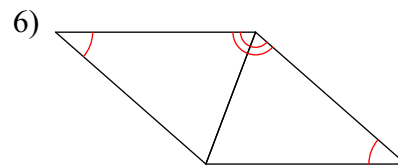
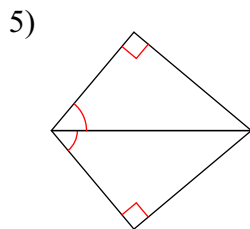
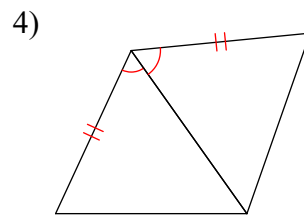
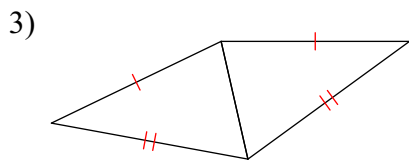
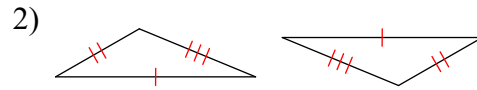
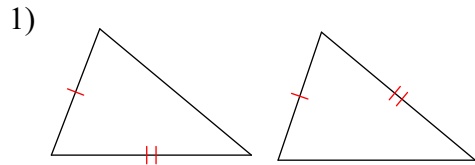


SM2 HW #7-2 (distance and triangle congruence)

State if the two triangles are congruent. Give the Triangle Congruence Theorem that proves congruence.



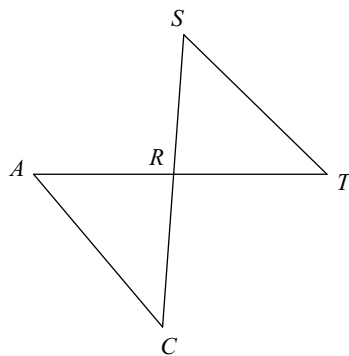
9) Find the distance between (2, 5) and (7, 8)

10) Find the distance between (-3, 8) and (4, -2)

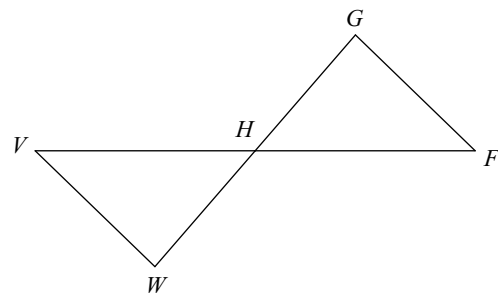
Complete each congruence statement by naming the corresponding angle or side.

11) $\triangle RST \cong \triangle RAC$

12) $\triangle HGF \cong \triangle HWV$



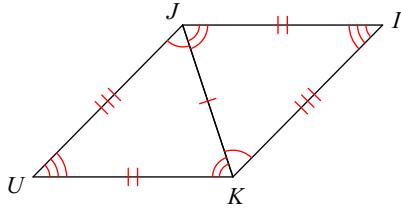
$\overline{ST} \cong ?$



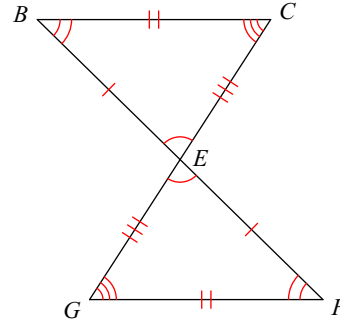
$\angle G \cong ?$

Write a statement that indicates that the triangles in each pair are congruent.

13)



14)

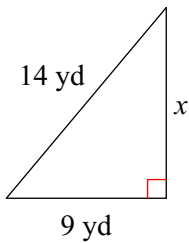


Find the midpoint of the line segment with the given endpoints.

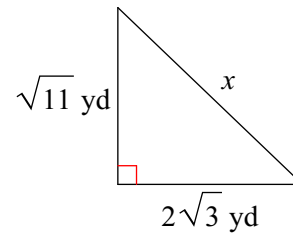
15) $(1, -3)$, $(-2, -9)$

Find the missing side of each triangle. Leave your answers in simplest radical form.

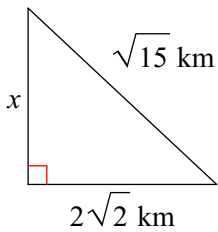
16)



17)

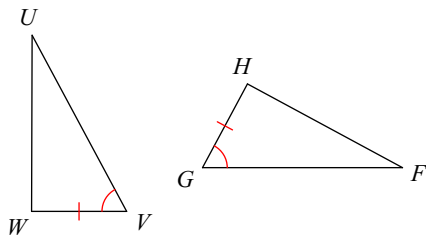


18)

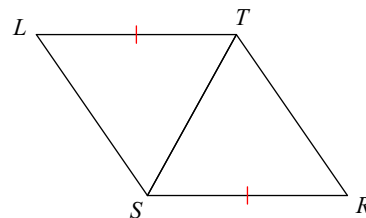


State what additional information is required in order to know that the triangles are congruent for the reason given.

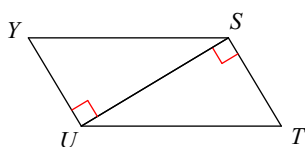
19) AAS



20) SAS



21) SAS



22) ASA

