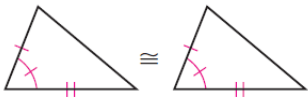


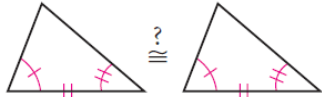
Congruence Short Cuts

Side-Angle-Side (SAS)



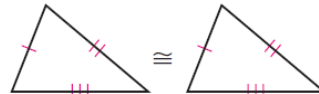
Two pairs of congruent sides and one pair of congruent angles (angles between the pairs of sides)

Angle-Side-Angle (ASA)



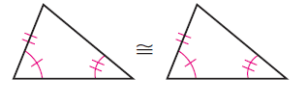
Two pairs of congruent angles and one pair of congruent sides (sides between the pairs of angles)

Side-Side-Side (SSS)



Three pairs of congruent sides

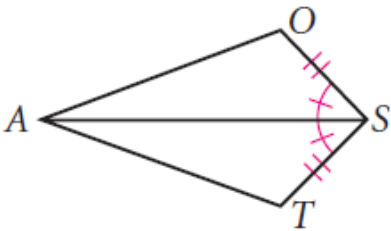
Side-Angle-Angle (SAA)



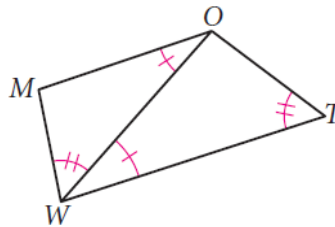
Two pairs of congruent angles and one pair of congruent sides (sides not between the pairs of angles)

Reason if the following pairs of triangles are congruent by any short cut method. If they are, name the congruent triangles and explain why they are congruent. If they aren't, explain why not.

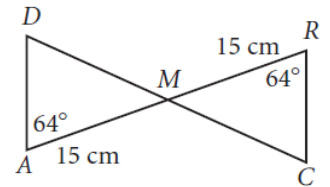
1.



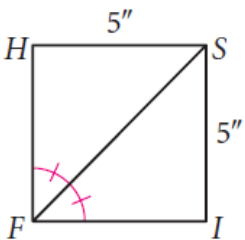
2.



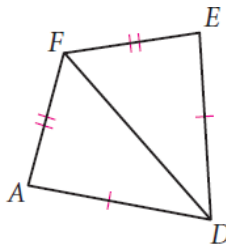
3.



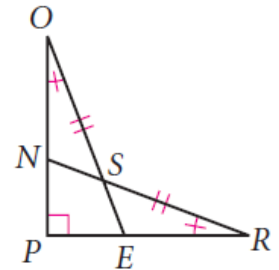
4.



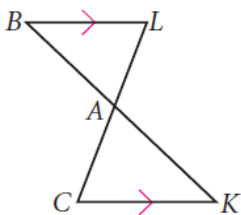
5.



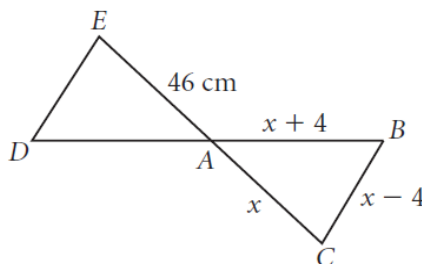
6.



7.



8. The perimeter of $\triangle ABC$ is 138 cm and $\overline{BC} \parallel \overline{DE}$. Is $\triangle ABC \cong \triangle ADE$? Which conjecture supports your conclusion?



9. $\overline{AB} \parallel \overline{CD}$

