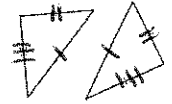


Triangle Congruence

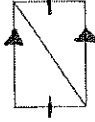
SSS, SAS, AAS, ASA, HL

Triangle Congruence Theorems:

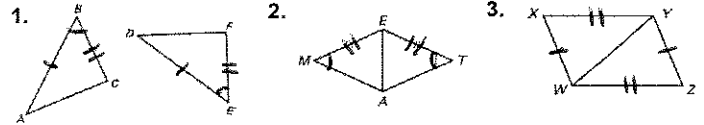
Side-Side-Side (SSS) Congruence Postulate



Side-Angle-Side (SAS) Congruence Postulate

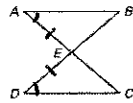


You Try: Are the Triangles Congruent? Explain.

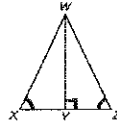


Triangle Congruence Theorems:

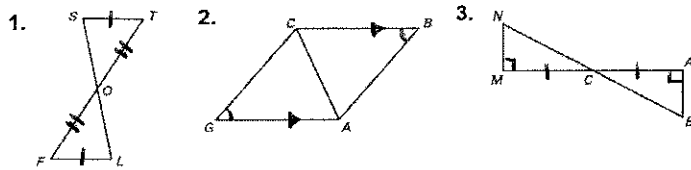
Angle-Side-Angle (ASA) Congruence Postulate



Angle-Angle-Side (AAS) Congruence Theorem

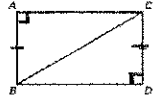


You Try: Are the Triangles Congruent? Explain.

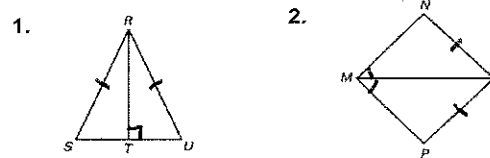


Triangle Congruence Theorems:

Hypotenuse-Leg (HL) Congruence Theorem

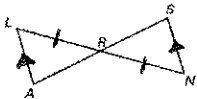


You Try: Are the Triangles Congruent? Explain.



Complete the Proofs by stating the Reasons:

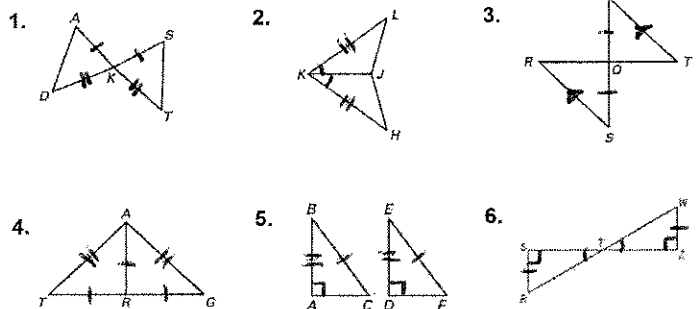
Given: $\overline{LA} \parallel \overline{SN}$, $\overline{LR} \cong \overline{NR}$
 Prove: $\triangle LAR \cong \triangle NSR$



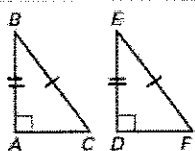
Statements	Reasons
1. $\overline{LA} \parallel \overline{SN}$	1. Given
2. $\angle L \cong \angle N$	2. Alt Interior Angles
3. $\overline{LR} \cong \overline{NR}$	3. _____
4. $\angle LRA \cong \angle NRS$	4. _____
5. $\triangle LAR \cong \triangle NSR$	5. _____

Triangle Congruence Theorems: More Practice

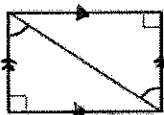
Are the Triangles Congruent? Explain.



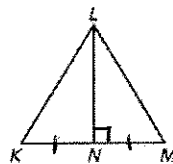
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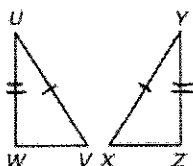
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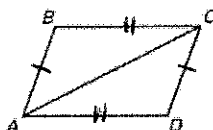
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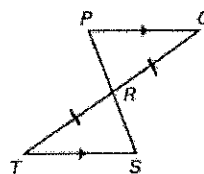
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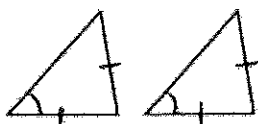
6.



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Homework:

7.



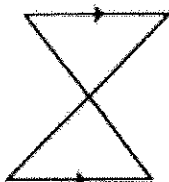
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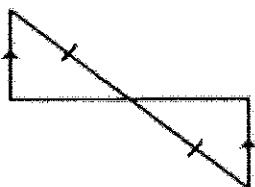
9.



10.



11.



12.

