

Name: _____

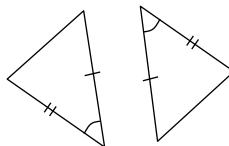
Unit 4: Congruent Triangles

Date: _____ Per: _____

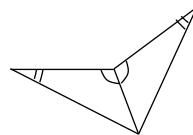
Homework 7: Proofs Review: All Methods**** This is a 2-page document! ****

**Determine if the triangles can be proved congruent, if possible, by SSS, SAS, ASA, AAS, or HL.
Write your answer on the line provided. If not congruent, write "not congruent."**

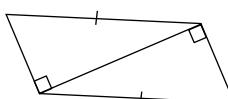
1. _____



2. _____



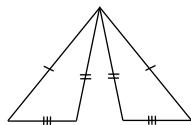
3. _____



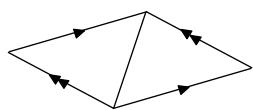
4. _____



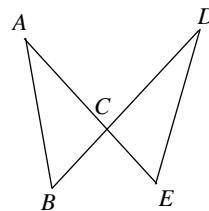
5. _____



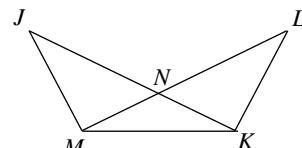
6. _____



Complete the proofs using the most appropriate method. Some may require CPCTC.

7. Given: $\angle BAC \cong \angle EDC$, $\overline{BC} \cong \overline{EC}$ Prove: $\triangle ABC \cong \triangle DEC$ 

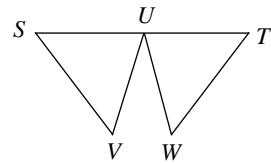
Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.

8. Given: $\overline{JK} \cong \overline{LM}$, $\angle JKM \cong \angle LMK$ Prove: $\triangle JMK \cong \triangle LKM$ 

Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.

9. Given: U is the midpoint of \overline{ST} , $\overline{SV} \cong \overline{TW}$, $\overline{VU} \cong \overline{WU}$

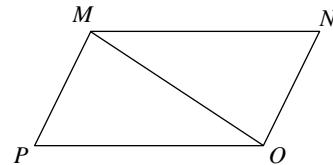
Prove: $\angle SVU \cong \angle TWU$



Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

10. Given: $\overline{MN} \parallel \overline{PO}$, $\overline{MP} \parallel \overline{NO}$

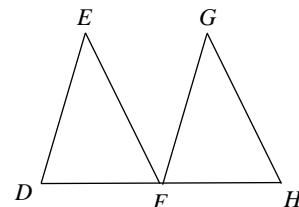
Prove: $\overline{MP} \cong \overline{ON}$



Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.

11. Given: $\overline{DE} \parallel \overline{FG}$, $\overline{DE} \cong \overline{FG}$, $\angle DEF \cong \angle FGH$

Prove: $\angle DFE \cong \angle FHG$



Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.