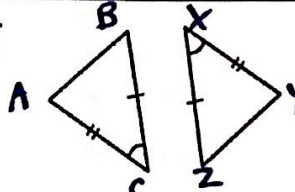
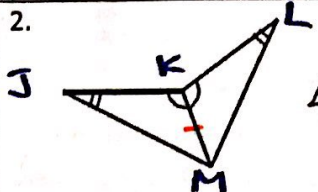
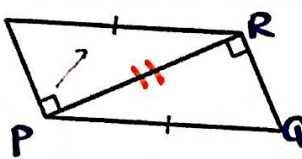
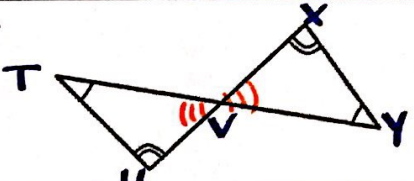
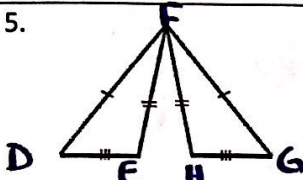
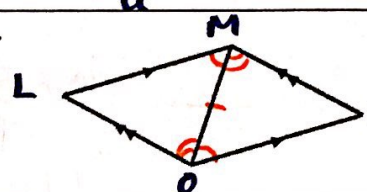


Name: _____

Date: _____ Period: _____

Proof Writing Review

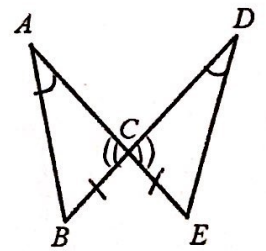
Determine if the following triangles can be proved congruent, if possible, by SSS, SAS, ASA, AAS, or HL. If so, write a valid congruency statement.

<p>1.  SAS $\Delta ACB \cong \Delta YXZ$</p>	<p>2.  AAS $\Delta JKM \cong \Delta LKM$</p>
<p>3.  HL $\Delta OPR \cong \Delta QRP$</p>	<p>4.  none</p>
<p>5.  SSS $\Delta DFE \cong \Delta GFH$</p>	<p>6.  ASA $\Delta MNO \cong \Delta ONL$</p>

Complete the following proofs using the most appropriate method. Some may require CPTPC. Be sure to label your diagram for full credit.

7. Given: $\angle BAC \cong \angle EDC$ and $\overline{BC} \cong \overline{CE}$

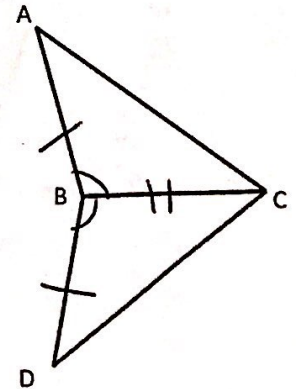
Prove: $\Delta ABC \cong \Delta DEC$



Statements	Reasons
1. $\angle BAC \cong \angle EDC$	1. given
2. $\overline{BC} \cong \overline{CE}$	2. given
3. $\angle ACB \cong \angle DCE$	3. vertical
4. $\Delta ABC \cong \Delta DEC$	4. AAS

8. Given: $\overline{AB} \cong \overline{DB}$ and $\angle ABC \cong \angle DBC$

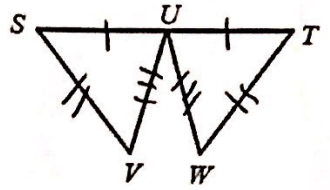
Prove: $\Delta ABC \cong \Delta DBC$



Statements	Reasons
1. $\overline{AB} \cong \overline{DB}$	1. given
2. $\angle ABC \cong \angle DBC$	2. given
3. $\overline{CB} \cong \overline{CB}$	3. reflexive
4. $\Delta ABC \cong \Delta DBC$	4. SAS

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

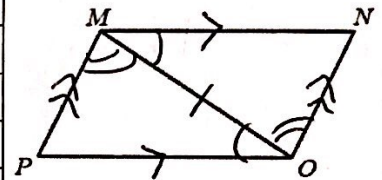
Prove: $\angle SVU \cong \angle TWU$



Statements	Reasons
1. U is the midpoint of \overline{ST}	1. given
2. $\overline{SU} \cong \overline{TU}$	2. def mp
3. $\overline{SV} \cong \overline{TW}$	3. given
4. $\overline{VU} \cong \overline{WU}$	4. given
5. $\triangle SUV \cong \triangle TUW$	5. SSS
6. $\angle SVU \cong \angle TWU$	6. CPCTC

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

Prove: $\overline{MP} \cong \overline{NO}$



Statements	Reasons
1. $\overline{MN} \parallel \overline{PO}$	1. given
2. $\angle NMO \cong \angle POM$	2. alt. int.
3. $\overline{MP} \parallel \overline{NO}$	3. given
4. $\angle MPO \cong \angle NMO$ $\angle NOM \cong \angle PMO$	4. alt int
5. $\overline{MO} \cong \overline{MO}$	5. reflexive
6. $\triangle MOP \cong \triangle NMO$	6. ASA
7. $\overline{MP} \cong \overline{NO}$	7. CPCTC

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. $\overline{DE} \parallel \overline{FG}$	1. given
2. $\angle NMO \cong \angle POM$ $\angle EDF \cong \angle GFH$	2. corresponding
3. $\overline{DE} \cong \overline{FG}$	3. given
4. $\angle DEF \cong \angle FGH$	4. given
5. $\triangle FED \cong \triangle HGF$	5. ASA
6. $\angle DFE \cong \angle FHG$	6. CPCTC

