

Geometry Section 4-3 & 4-4 Practice Sheet

Period _____

Name: _____

For each triangle, name the included angle between the pair of sides given.

1. $\triangle MAT$: \overline{MT} and \overline{TA}

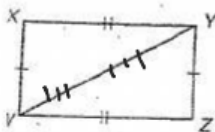
2. $\triangle CDA$: \overline{CA} and \overline{DC}

3. $\triangle PSC$: \overline{CS} and \overline{PS}

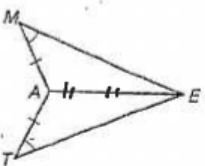
4. $\triangle WDG$: \overline{DG} and \overline{GW}

Decide whether enough information is given to prove that the triangles are congruent. If there is enough information, state the congruence postulate you would use.

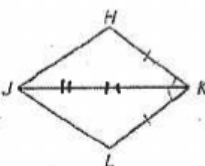
5. $\triangle XYW$, $\triangle ZWY$



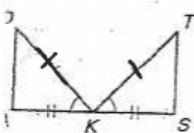
6. $\triangle MAE$, $\triangle TAE$



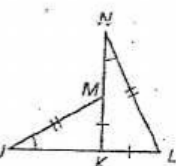
7. $\triangle KHJ$, $\triangle KLI$



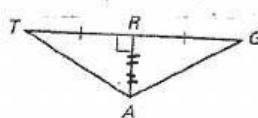
8. $\triangle DKA$, $\triangle TKS$



9. $\triangle JKM$, $\triangle NKL$



10. $\triangle TRA$, $\triangle GRA$



1. _____

2. _____

3. _____

4. _____

5. SSS

6. SSA Not \cong

7. SAS

8. SAS

9. Not \cong

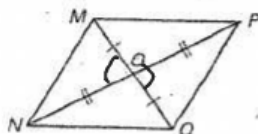
10. SAS

Complete the proof by supplying the statement or reason.

Given: O is the midpoint of \overline{MQ} .

O is the midpoint of \overline{NP} .

Prove: $\triangle MON \cong \triangle QOP$



Statements

Reasons

1. O is the midpoint of \overline{MQ} .

1. ? Given

2. ? $\overline{MO} \cong \overline{OQ}$

2. Definition of midpoint

3. ? O is m. dpt of \overline{NP}

3. Given

4. ? $\overline{NO} \cong \overline{OP}$

4. Definition of midpoint

5. $\angle MON \cong \angle QOP$

5. ? Vertical \angle 's \cong

6. $\triangle MON \cong \triangle QOP$

6. ? SAS

Write a paragraph proof.

Given: $\overline{AB} \cong \overline{CD}$, $\overline{BC} \cong \overline{DA}$

Prove: $\triangle ABC \cong \triangle CDA$



13. Write a two-column proof.

Given: $\overline{AD} \cong \overline{CB}$, $\overline{AD} \parallel \overline{CB}$

Prove: $\triangle ABD \cong \triangle CDB$



Statement

Reason

1) $\overline{AD} \cong \overline{CB}$
 $\overline{AD} \parallel \overline{CB}$

1) Given

2) $\overline{DB} \cong \overline{DB}$

2) Reflexive prop

3) $\angle ADB \cong \angle CBD$

3) Alternate Int \angle 's \cong

4) SAS