

# 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  $\overline{GW}$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

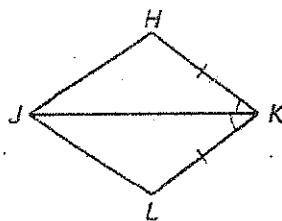
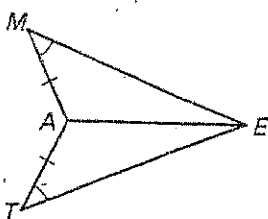
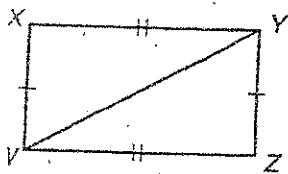
10. \_\_\_\_\_

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

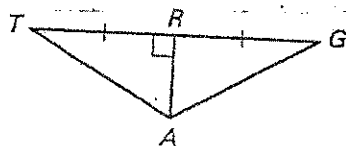
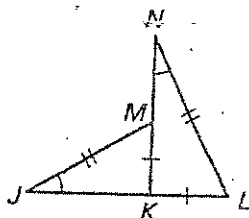
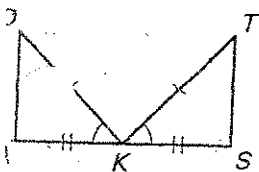
7.  $\triangle KHJ$ ,  $\triangle KLI$



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

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

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

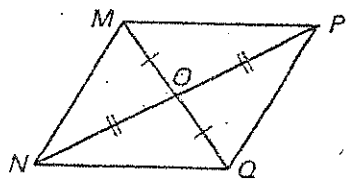


Complete the proof by supplying the statement or reason.

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. ?

2. ?

2. Definition of midpoint

3. ?

3. Given

4. ?

4. Definition of midpoint

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

5. ?

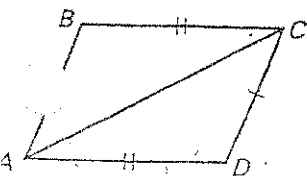
6.  $\triangle MON \cong \triangle QOP$

6. ?

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:  $\triangle ABD \cong \triangle CDB$

