LESSON 4.3

NAME _____ DATE _____

Practice B

For use with pages 212–219

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

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

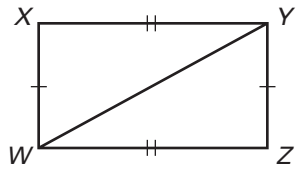
2. $\triangle CDA$: $\overline{CA}$ and $\overline{DC}$

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

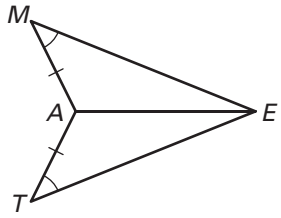
4. $\triangle WDG$: $\overline{DG}$ and $\overline{GW}$

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.

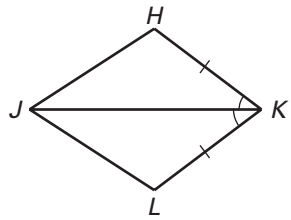
5. $\triangle XYW$, $\triangle ZWY$



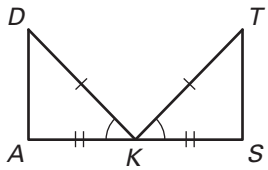
6. $\triangle MAE$, $\triangle TAE$



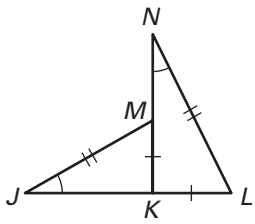
7. $\triangle KHJ$, $\triangle KLJ$



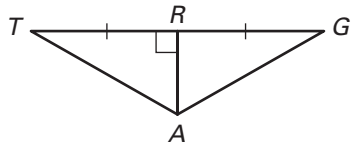
8. $\triangle DKA$, $\triangle TKS$



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



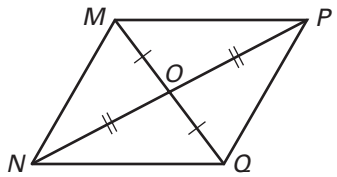
10. $\triangle TRA$, $\triangle GRA$



Complete the proof by supplying the statement or reason.

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

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

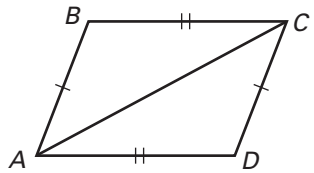


Statements	Reasons
1. O is the midpoint of $\overline{MQ}$.	1. ?
2. ?	2. Definition of midpoint
3. ?	3. Given
4. ?	4. Definition of midpoint
5. $\angle MON \cong \angle QOP$	5. ?
6. $\triangle MON \cong \triangle QOP$	6. ?

12. Write a paragraph proof.

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

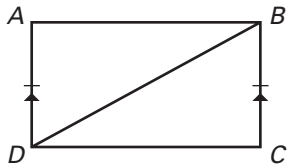
Prove: $\triangle ABC \cong \triangle CDA$



13. Write a two-column proof.

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

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



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