Name _____ Date _____

LESSON 4.4

Practice

For use with pages 240–247

Use the diagram to name the included angle between the given pair of sides.

1. $\overline{AB}$ and $\overline{BC}$

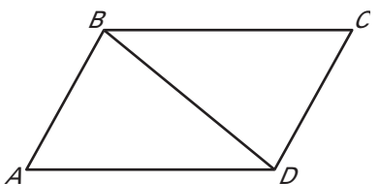
2. $\overline{BC}$ and $\overline{CD}$

3. $\overline{AB}$ and $\overline{BD}$

4. $\overline{BD}$ and $\overline{DA}$

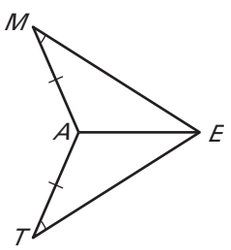
5. $\overline{DA}$ and $\overline{AB}$

6. $\overline{CD}$ and $\overline{DB}$

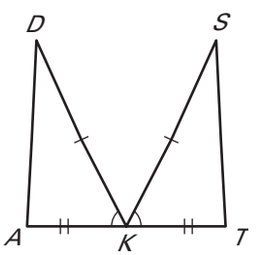


Decide whether enough information is given to prove that the triangles are congruent using the SAS Congruence Postulate.

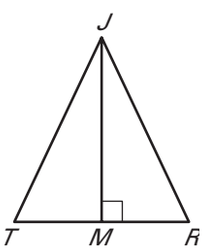
7. $\triangle MAE$, $\triangle TAE$



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

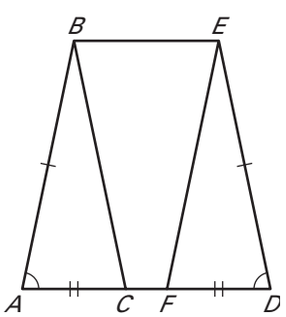


9. $\triangle JRM$, $\triangle JTM$

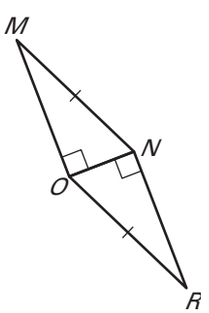


Decide whether enough information is given to prove that the triangles are congruent. If there is enough information, state the congruence postulate or theorem you would use.

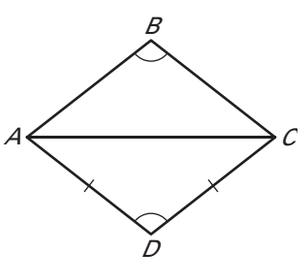
10. $\triangle ABC$, $\triangle DEF$



11. $\triangle MNO$, $\triangle RON$



12. $\triangle ABC$, $\triangle ADC$



Name _____ Date _____

LESSON 4.4

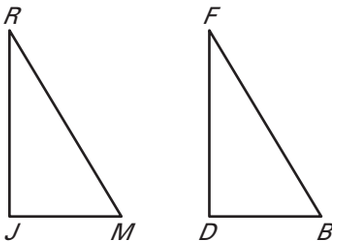
Practice *continued*

For use with pages 240–247

State the third congruence that must be given to prove that $\triangle JRM \cong \triangle DFB$ using the indicated postulate.

13. **GIVEN:** $\overline{JR} \cong \overline{DF}$, $\overline{JM} \cong \overline{DB}$, __?__ $\cong$ __?__

Use the SSS Congruence Postulate.



14. **GIVEN:** $\overline{JR} \cong \overline{DF}$, $\overline{JM} \cong \overline{DB}$, __?__ $\cong$ __?__

Use the SAS Congruence Postulate.

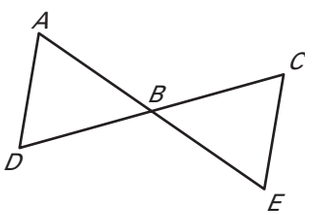
15. **GIVEN:** $\overline{RM} \cong \overline{FB}$, $\angle J$ is a right angle and $\angle J \cong \angle D$, __?__ $\cong$ __?__

Use the HL Congruence Theorem.

16. **Proof** Complete the proof.

GIVEN: B is the midpoint of $\overline{AE}$.
B is the midpoint of $\overline{CD}$.

PROVE: $\triangle ABD \cong \triangle EBC$



Statements	Reasons
1. B is the midpoint of $\overline{AE}$.	**1.** __?__
2. __?__	**2.** Definition of midpoint
3. B is the midpoint of $\overline{CD}$.	**3.** __?__
4. __?__	**4.** Definition of midpoint
5. $\angle ABD \cong \angle EBC$	**5.** __?__
6. $\triangle ABD \cong \triangle EBC$	**6.** __?__

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LESSON 4.4

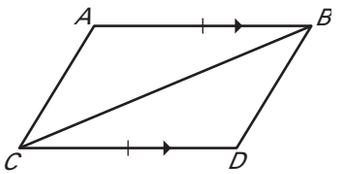
Practice *continued*

For use with pages 240–247

17. Proof Complete the proof.

GIVEN: $\overline{AB} \parallel \overline{CD}$, $\overline{AB} \cong \overline{CD}$

PROVE: $\triangle ABC \cong \triangle DCB$



Statements	Reasons
1. $\overline{AB} \parallel \overline{CD}$	**1.** ?
2. $\angle ABC \cong \angle DCB$	**2.** ?
3. $\overline{AB} \cong \overline{CD}$	**3.** ?
4. $\overline{CB} \cong \overline{CB}$	**4.** ?
5. $\triangle ABC \cong \triangle DCB$	**5.** ?