

Name _____

Date _____

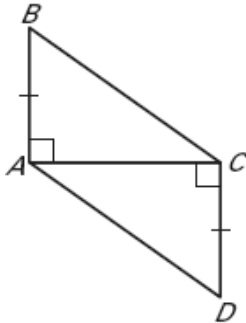
LESSON 4.6

Practice B

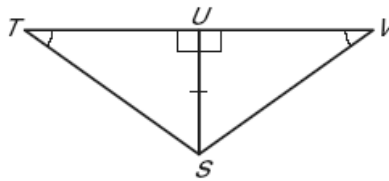
For use with pages 256–263

Tell which triangles you can show are congruent in order to prove the statement. What postulate or theorem would you use?

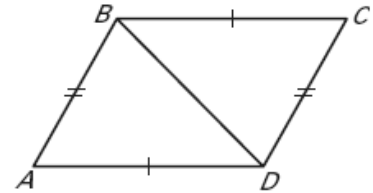
1. $\overline{BC} \cong \overline{AD}$



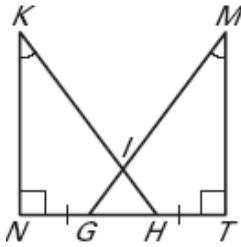
2. $\angle TSU \cong \angle VSU$



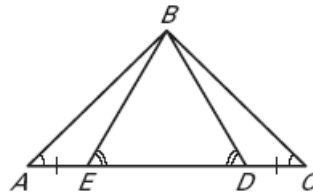
3. $\angle ADB \cong \angle CBD$



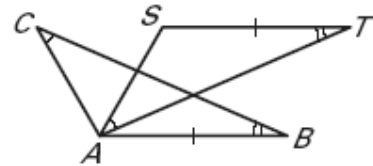
4. $\angle KHN \cong \angle MGT$



5. $\overline{BD} \cong \overline{BE}$

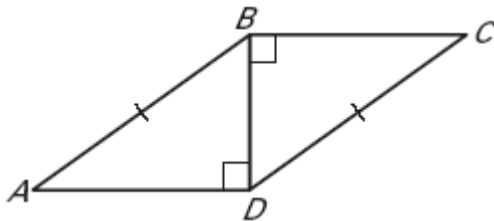


6. $\overline{BC} \cong \overline{AT}$

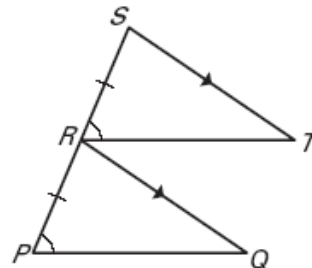


Use the diagram to write a plan for a proof.

7. PROVE: $\angle DAB \cong \angle BDC$



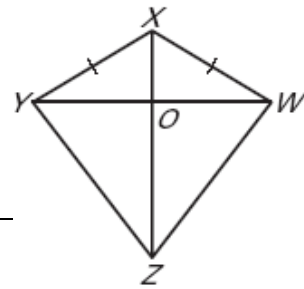
8. PROVE: $\overline{ST} \cong \overline{RQ}$



Use the vertices of $\triangle ABC$ and $\triangle DEF$ to show that $\angle A \cong \angle D$. Explain your reasoning.

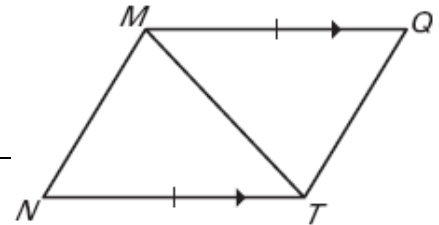
9. $A(1, 2), B(4, -3), C(2, 5), D(4, 7), E(1, 2), F(5, 10)$

10. **GIVEN:** $\overline{YX} \cong \overline{WX}$
 \overline{ZX} bisects $\angle YXW$.
PROVE: $\overline{YZ} \cong \overline{WZ}$



Statements	Reasons

11. **Given:** $\overline{MQ} \parallel \overline{NT}, \overline{MQ} \cong \overline{NT}$
PROVE: $\overline{MN} \cong \overline{TQ}$



Statements	Reasons