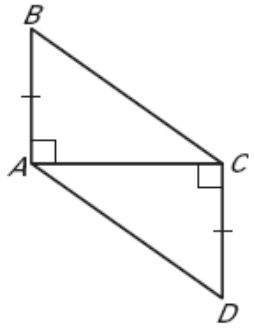
Name _____ **Date** _____

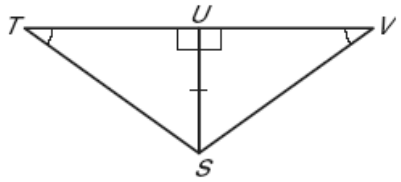
Assignment 34 LESSON 4.7

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

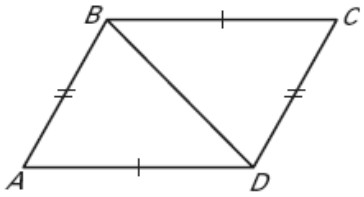
1. $\overline{BC} \cong \overline{AD}$



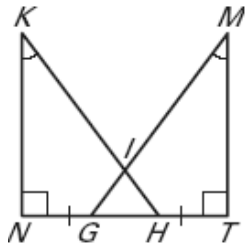
2. $\angle TSU \cong \angle VSU$



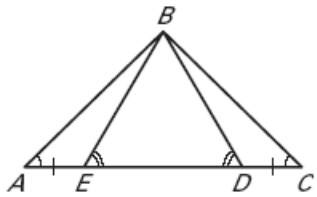
3. $\angle ADB \cong \angle CBD$



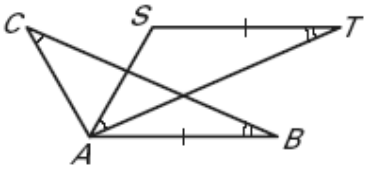
4. $\angle KHN \cong \angle MGT$



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



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



Use the vertices of ΔABC *and* ΔDEF *to* show that $\angle A \cong \angle D$. *Explain* your reasoning.

7. $A(1, 2)$, $B(4, -3)$, $C(2, 5)$, $D(4, 7)$, $E(\text{l}, 2)$, $F(5, 10)$

8. $A(2, 3)$, $B(2, 9)$, $C(6, 6)$, $D(8, 5)$, $E(8, 11)$, $F(12, 8)$