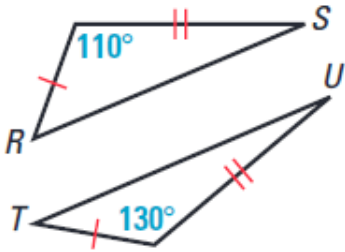


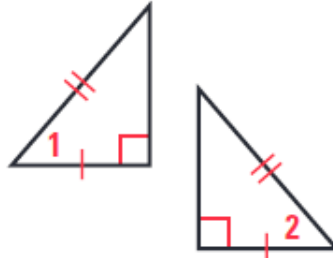
5-6 Worksheet

Complete each statement with $<$, $>$, or $=$.

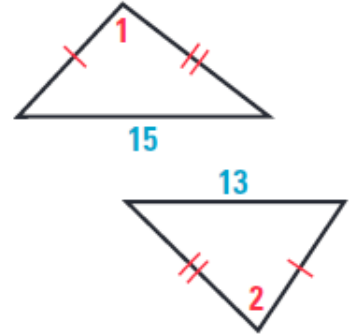
1. RS _____ TU



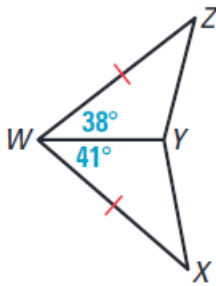
2. $m\angle 1$ _____ $m\angle 2$



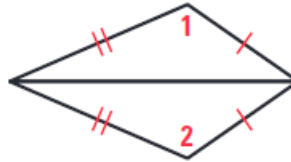
3. $m\angle 1$ _____ $m\angle 2$



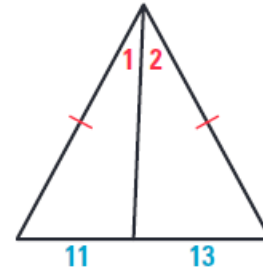
5. XY _____ ZY



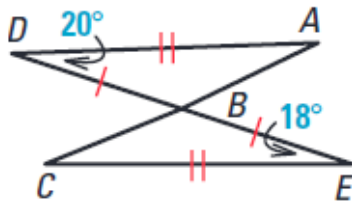
6. $m\angle 1$ _____ $m\angle 2$



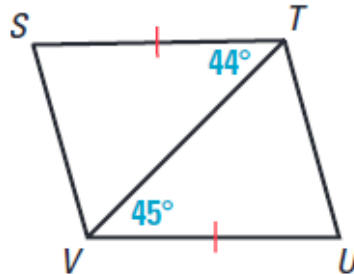
7. $m\angle 1$ _____ $m\angle 2$



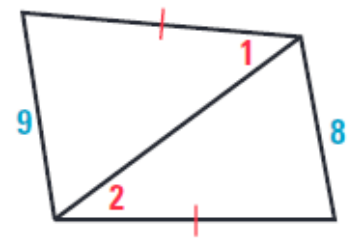
8. AB _____ CB



9. UT _____ SV



10. $m\angle 1$ _____ $m\angle 2$



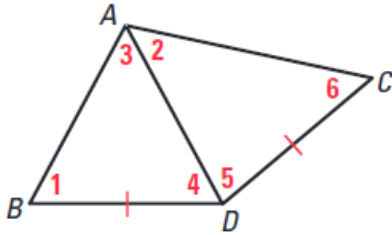
In problems 11 & 12, match the given information with conclusion A, B, or C. Explain your reasoning.

A. $AD > CD$

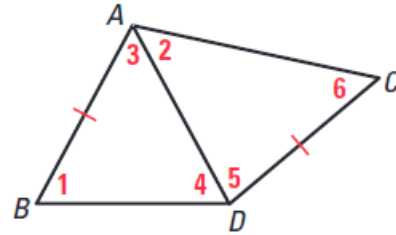
B. $AC > BD$

C. $m\angle 4 < m\angle 5$

11. $AC > AB, BD = CD$

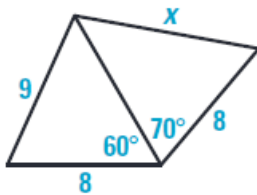


12. $AB = DC, m\angle 3 < m\angle 5$

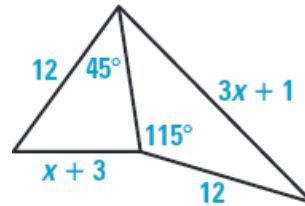


Use an inequality to describe a restriction on the value of x as determined by the Hinge Theorem or its converse.

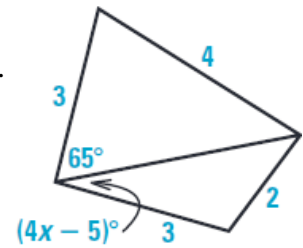
13.



14.



15.



16. Write an indirect proof.

GIVEN $\triangleright m\angle D > m\angle E$

PROVE $\triangleright EF > DF$

