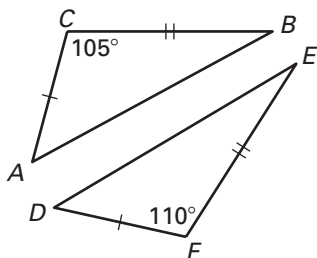


Practice A

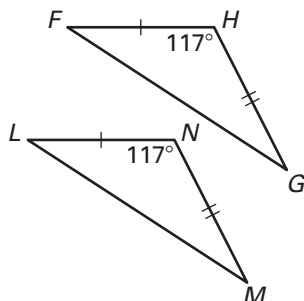
For use with pages 302–308

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

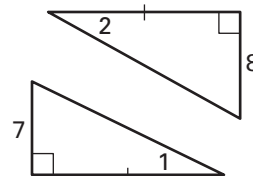
1. AB ? DE



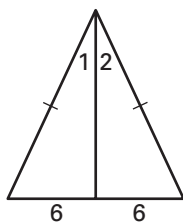
2. FG ? LM



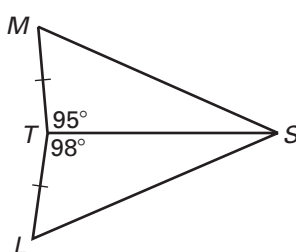
3. $m\angle 1$? $m\angle 2$



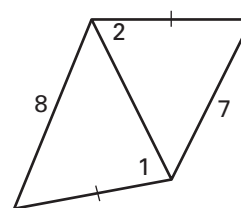
4. $m\angle 1$? $m\angle 2$



5. MS ? LS



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



Match the conclusion on the right with the given information. Explain your reasoning.

7. $AB = BC, \angle 1 > m\angle 2$

A. $m\angle 7 > m\angle 8$

8. $AE > EC, AD = CD$

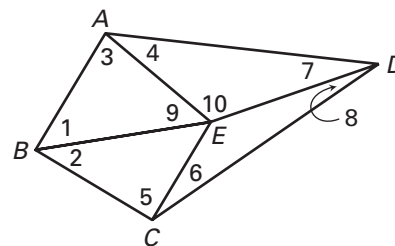
B. $AD > AB$

9. $m\angle 9 < m\angle 10, BE = ED$

C. $m\angle 3 + m\angle 4 = m\angle 5 + m\angle 6$

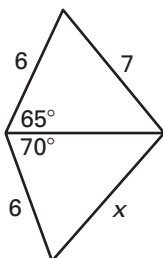
10. $AB = BC, AD = CD$

D. $AE > EC$

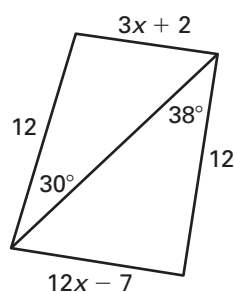


Use an inequality to describe a restriction on the value of x as determined by the Hinge Theorem or its converse.

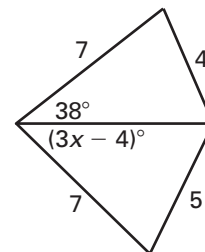
11.



12.



13.



Write the first statement for an indirect proof of the situation.

14. In $\triangle MNO$, if $\overline{MP}$ is perpendicular to $\overline{NO}$, then $\overline{MP}$ is an altitude.