Complete with <, >, or = .

1. AB __?__ DE <

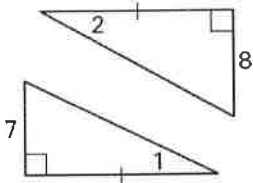**2.** FG __?__ LM =
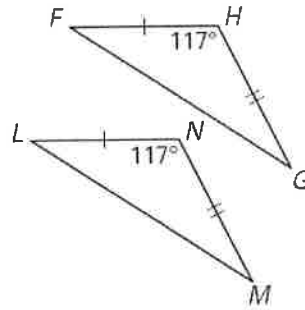
3. $m\angle 1$ __?__ $m\angle 2$ <

4. $m\angle 1$ __?__ $m\angle 2$ =
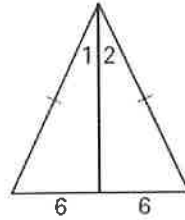
5. MS __?__ LS <
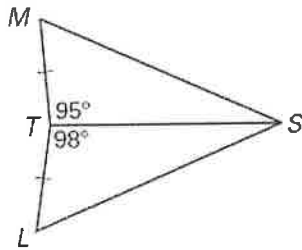
6. $m\angle 1$ __?__ $m\angle 2$ >
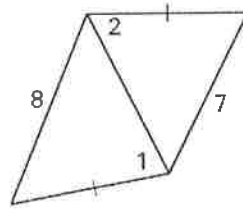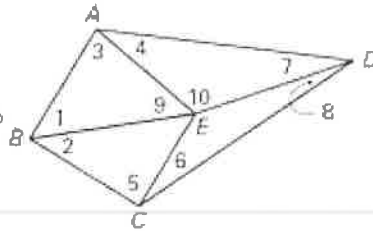

7. ET __?__ GT <
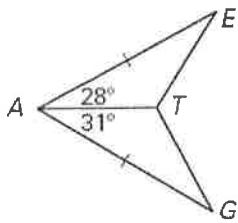
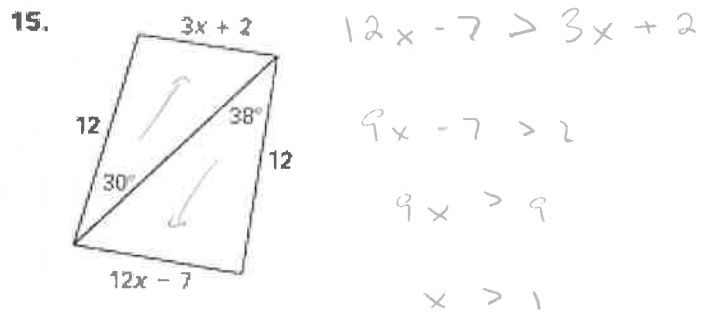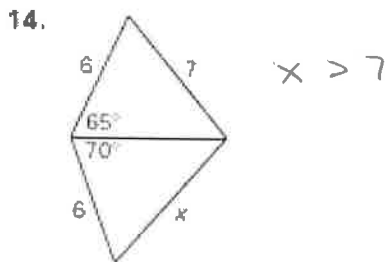**8.** $m\angle 1$ __?__ $m\angle 2$ <
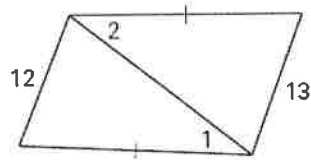
Match the conclusion on the right with the given information.
Explain your reasoning.

10. $AB = BC$, $m\angle 1 = m\angle 2$ ○ **A.** $m\angle 7 > m\angle 8$

11. $AE = EC$, $AD = CD$ A **B.** $AD > AB$

12. $m\angle 9 = m\angle 10$, $BE = ED$ B **C.** $m\angle 3 + m\angle 4 = m\angle 5 + m\angle 6$

13. $AB = BC$, $AD = CD$ C **D.** $AE > EC$

Write and solve an inequality thay will allow us to solve for the possible values of x.

14.

$x > 7$

15.

$12x - 7 > 3x + 2$

$9x - 7 > 2$

$9x > 9$

$x > 1$

16. **Shopping** You and a friend are going shopping. You leave school and drive 10 miles due west on 26th Street. You then drive 7 miles NW on Raspberry Street to the grocery store. Your friend leaves school and drives 10 miles due east on 26th Street. He then drives 7 miles SE on Cascade Street to the movie store. Each of you has driven 17 miles. Which of you is farthest from your school?

friend