5-5 Practice
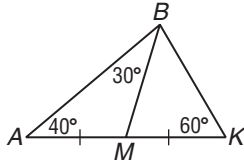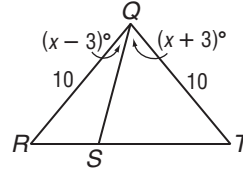
Inequalities Involving Two Triangles

Write an inequality relating the given pair of angles or segment measures.
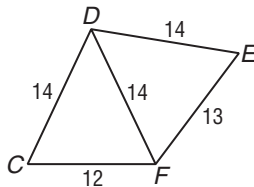
1. AB, BK
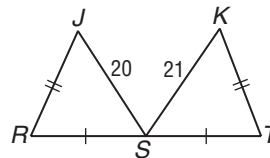

2. ST, SR

3. $m\angle CDF, m\angle EDF$
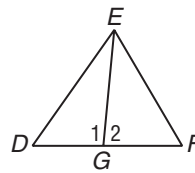

4. $m\angle R, m\angle T$

5. Write a two-column proof.
   Given: G is the midpoint of $\overline{DF}$.
           $m\angle 1 > m\angle 2$
   Prove: $ED > EF$

6. TOOLS Rebecca used a spring clamp to hold together a chair leg she repaired with wood glue. When she opened the clamp, she noticed that the angle between the handles of the clamp decreased as the distance between the handles of the clamp decreased. At the same time, the distance between the gripping ends of the clamp increased. When she released the handles, the distance between the gripping end of the clamp decreased and the distance between the handles increased. Is the clamp an example of the SAS or SSS Inequality?

Lesson 5-5