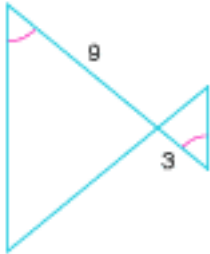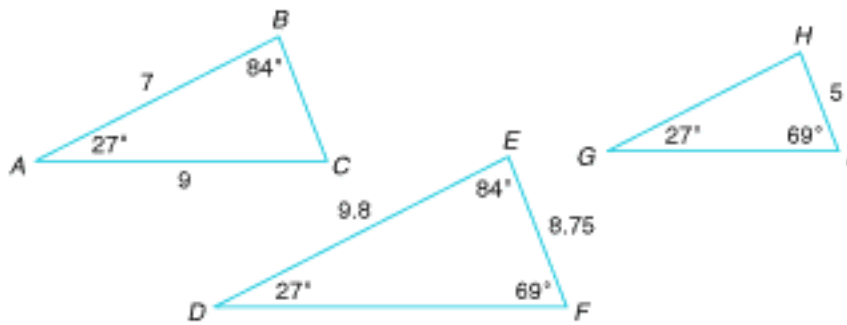Name _____ Date _____ Hour _____

7.3 Assignment

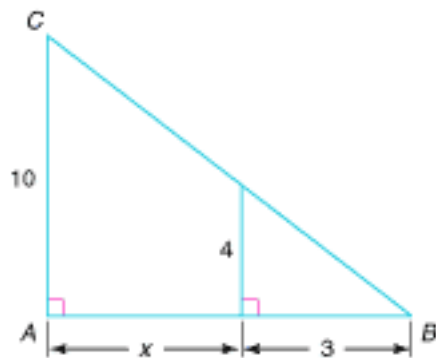1. The two triangles shown are similar by _____.

A. ASA Similarity   **B.** SSS Similarity

C. SAS Similarity   **D.** AA Similarity
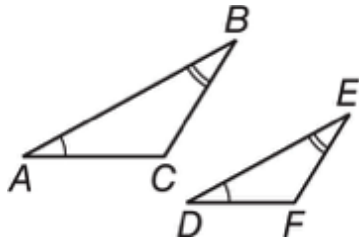
2. What is the measure of GI?

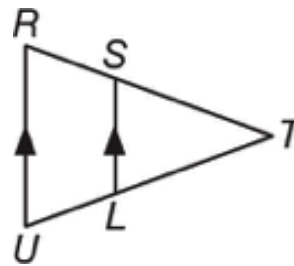3. Find the value of x.

Problems 4-7 Determine whether the triangles are similar. (i) If they are, write a similarity statement. (ii) If they are not, explain why.
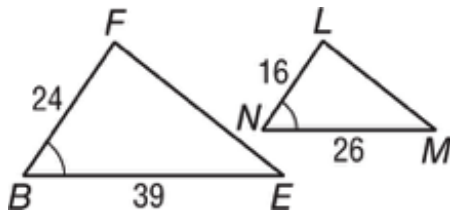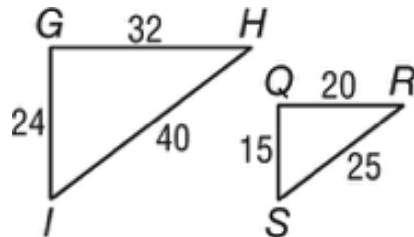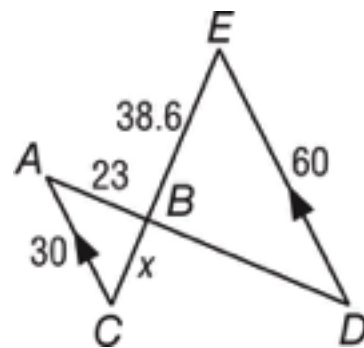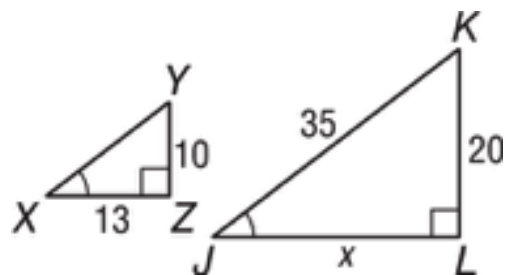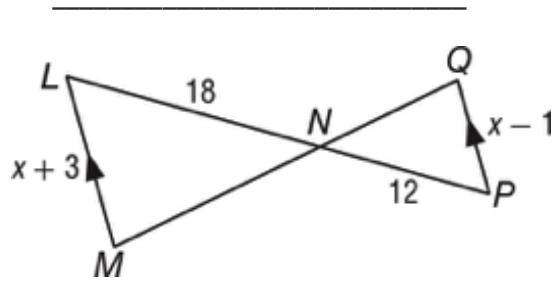
4.

5.

6.

7.

Problems 8-11 Each triangle is similar to each other. Write the similarity statement. Then, find the measure of the variable in each problem.
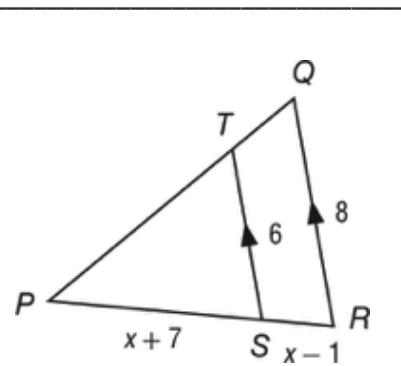
8. Similarity Statement

_____

9. Similarity Statement

_____

10. Similarity Statement

_____

11. Similarity Statement

_____

12. A lighthouse casts a 128-foot shadow. A nearby lamppost that is 5 feet in height casts an 8-foot shadow. (a) Write a proportion to determine the height of the lighthouse and (b) find the height.

13. A light pole casts a 6-foot shadow. A nearby metal pole that is 1.5 feet in height casts a 14-inch shadow. Find the height of the light pole.