Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7.3 Triangle Similarity Homework

**Directions: Determine whether the pairs of triangles are similar by AA Similarity.**

1. 2.

3. 4.

**Directions: The two triangles given are similar. Complete the following for each problem:**

**A. Write the similarity statement.**

**B. Find x.**

**C. Find the measure of the indicated side**

5.

1. $∆LNM $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. x = \_\_\_\_\_\_\_\_\_
3. LM = \_\_\_\_\_\_, QP = \_\_\_\_\_\_

6.

1. $∆LMK $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. x = \_\_\_\_\_\_\_\_\_
3. NL = \_\_\_\_\_\_, ML = \_\_\_\_\_\_

7.

1. $∆PQR $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. x = \_\_\_\_\_\_\_\_\_
3. PS = \_\_\_\_\_\_, PR = \_\_\_\_\_\_



8.

1. $∆EFG $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. x = \_\_\_\_\_\_\_\_\_
3. EG = \_\_\_\_\_\_, HG = \_\_\_\_\_\_