Name: _____
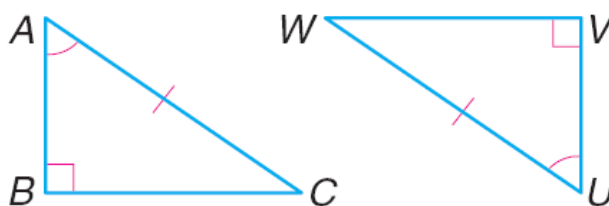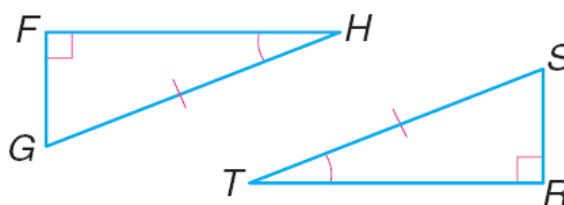
Congruent Right Triangles

<mark>Exercise 1:</mark> Determine whether each pair of right triangles is congruent by LL, HA, LA, or HL. If it is not possible to prove that they are congruent, write *not possible*.
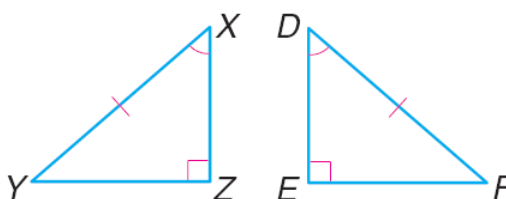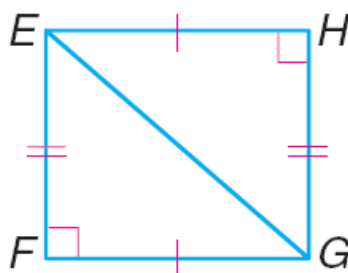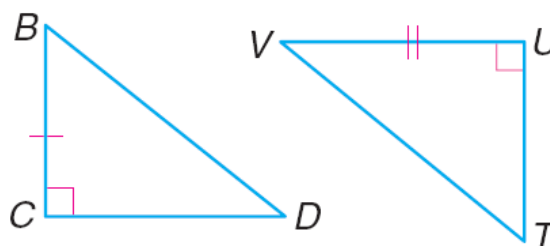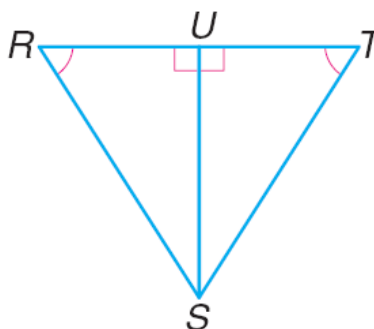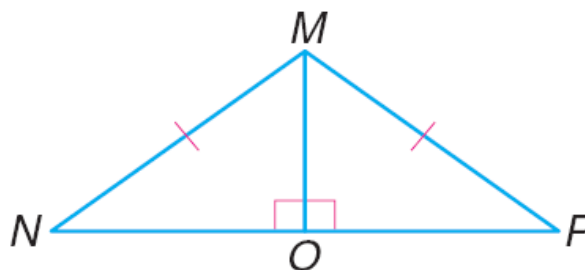
1)

2)

3)

4)

5)

6)

7)

8)

Exercise 2: Sketch a diagram of the appropriate situation and indicate what is given and what is to be proved. Then write a two-column proof.

1) Prove that if the legs of one right triangle are congruent to the legs of a second right triangle, then the two triangles are congruent.

2) Prove that if one side of an equilateral triangle is congruent to one side of a second equilateral triangle, then the two triangles are congruent.