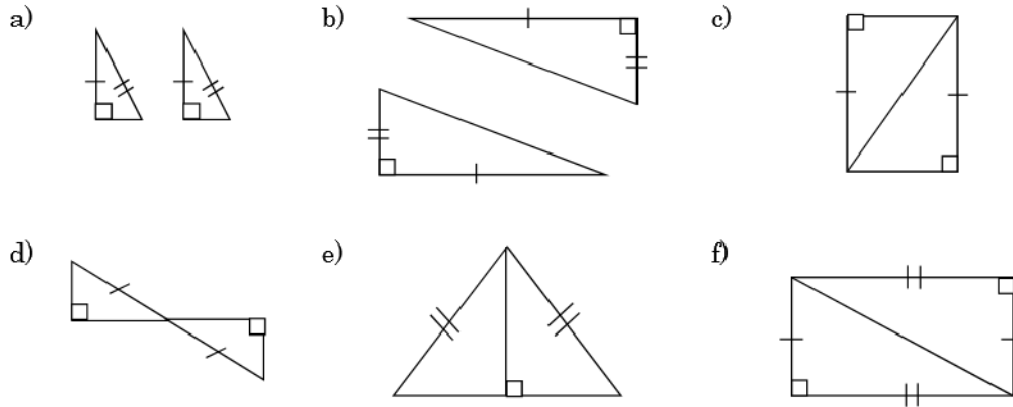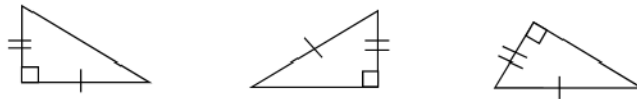If the hypotenuse and a leg of one right triangle have the same lengths as the hypotenuse and leg of a second right triangle, then the two triangles are congruent.

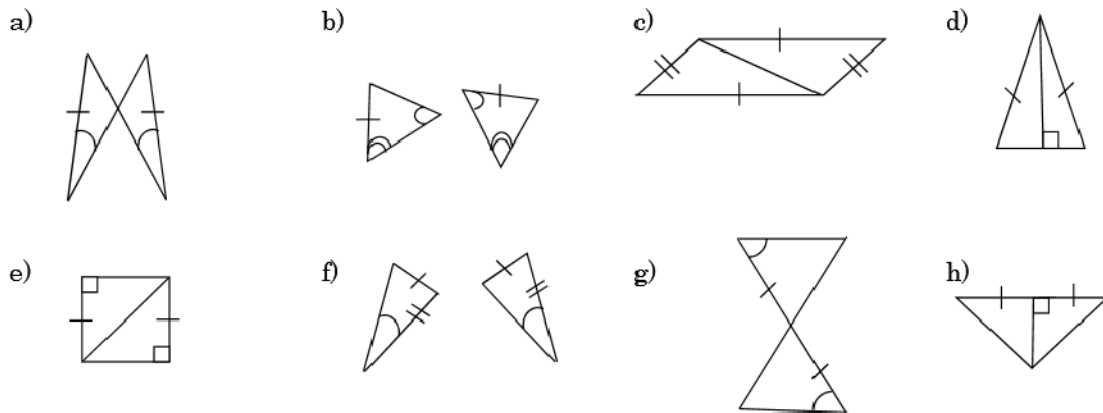**1**. Which of the following pairs of triangles can be shown to congruent by the HL postulate?

a)

b)

c)

d)

e)

f)

2. Which two triangles are congruent by the HL Postulate?

3. Using initials, list all the postulates for forming congruent triangles.

4. Which postulate, if any, can be used to prove these triangles are congruent?

a)

b)

c)

d)

e)

f)

g)

h)

Proving Triangles Congruent

Summary of Congruent Triangle Postulates

For any triangle: SSS, SAS, ASA, AAS

For right triangles only: HL

State which of the above postulates prove each of the following pair of triangles congruent. Write 'None', if not congruent.

1.

2.

3.

4.

5.

6.

7.

8.

9.