**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_ HR: \_\_\_\_\_**

**Congruent Triangles: HW**

1) Identify the congruent triangles in the given figure



∆ABC≅\_\_\_\_\_\_\_\_\_\_\_\_ ∆ABC≅\_\_\_\_\_\_\_\_\_\_\_\_ ∆XYZ≅\_\_\_\_\_\_\_\_ ∆MLP≅\_\_\_\_\_\_\_\_\_\_\_\_

2) Verify that the following transformation preserves congruence.

a.



****

b. c.



Use the given information to identify the congruent triangles. Describe what congruence shortcut you used and what angles or sides you know are congruent.

****

**3.**

 **a. Short cut congruence used \_\_\_\_\_\_\_\_\_\_**

 **b. Name the 3 congruent corresponding parts:**

$$ ∆ SRP≅\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$$

****

**4.**

 **a. Short cut congruence used \_\_\_\_\_\_\_\_\_\_**

 **b. Name the 3 congruent corresponding parts:**

$$ ∆ STR≅\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$$

****

**5.**

 **a. Short cut congruence used \_\_\_\_\_\_\_\_\_\_**

 **b. Name the 3 congruent corresponding parts:**

$$ ∆ ABC≅\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$$

****

**6.**

 **a. Short cut congruence used \_\_\_\_\_\_\_\_\_\_**

 **b. Name the 3 congruent corresponding parts:**

$$ ∆ ABD≅\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$$

$$∆ ABD≅\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$$

****

7.

 **a. Short cut congruence used \_\_\_\_\_\_\_\_\_\_**

 **b. Name the 3 congruent corresponding parts:**

$$ $$

$$ ∆ RNA≅\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$$