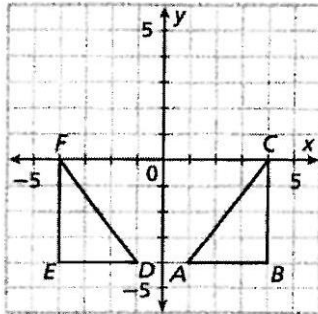


Use the definition of congruence in terms of rigid motions to determine whether the two figures are congruent (circle your answer) and explain your answer.

**Your Work:**

**Corrected Work:**

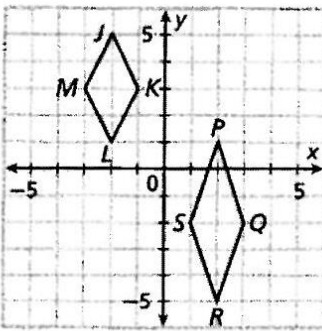
1. Congruent      Not Congruent



Explanation:

Congruence Statement: \_\_\_\_\_

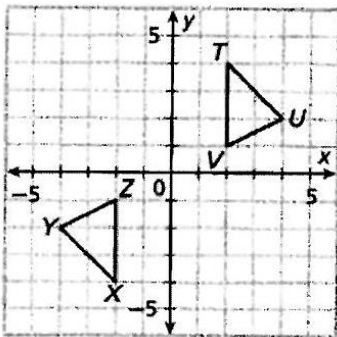
2. Congruent      Not Congruent



Explanation:

Congruence Statement: \_\_\_\_\_

3. Congruent      Not Congruent



Explanation:

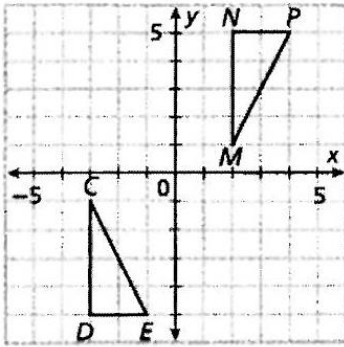
Congruence Statement: \_\_\_\_\_

For each pair of congruent figures, find a composition of rigid motions that maps one figure to the other.

**Your Work:**

**Corrected Work:**

4.



Composition of Rigid Motions:

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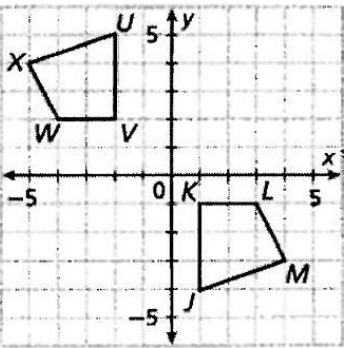
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Congruence Statement: \_\_\_\_\_

5.



Composition of Rigid Motions:

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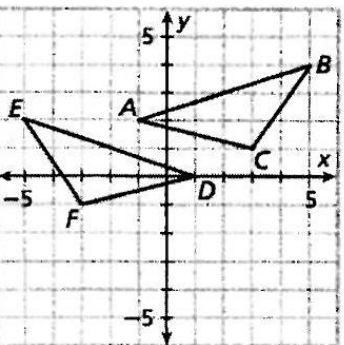
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Congruence Statement: \_\_\_\_\_

6.



Composition of Rigid Motions:

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Congruence Statement: \_\_\_\_\_

7. Consider a mystery transformation that maps  $\triangle XYZ$  to  $\triangle X'Y'Z'$ .

- What is the image of  $\overline{XY}$ ? \_\_\_\_\_
- What is the image of  $Z$ ? \_\_\_\_\_
- What is the preimage of  $\angle Y'$ ? \_\_\_\_\_
- Can you conclude that  $YZ = Y'Z'$ ? Why or why not?