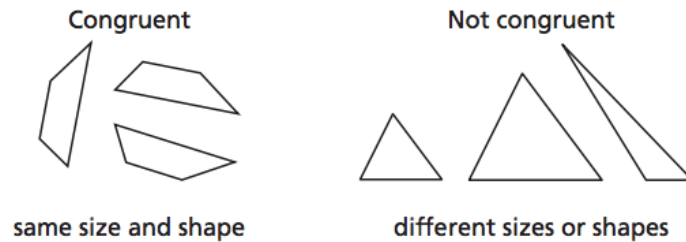


4.4 Notes - Congruence and Transformations

Congruent Figures: Two geometric figures are congruent figures if and only if there is a _____ or a _____ of _____ that maps one of the figures onto the other.



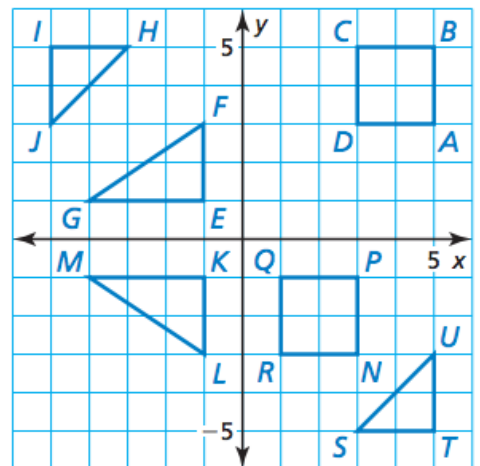
**Remember, the rigid motions we discussed this chapter are:

1. _____
2. _____
3. _____

You can identify congruent figures in the coordinate plane by identifying the rigid motion or composition of rigid motions that maps one of the figures onto the other.

Example:

1. Identify any congruent figures in the coordinate plane. Explain.



Congruence Transformations

Another name for a rigid motion or a combination of rigid motions is a congruence transformation because the PREIMAGE and IMAGE are *congruent*.

Example:

2. Describe a congruence transformation that maps quadrilateral ABCD (_____) to quadrilateral EFGH (_____).

