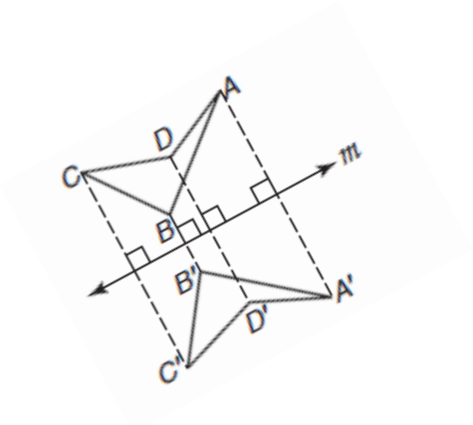
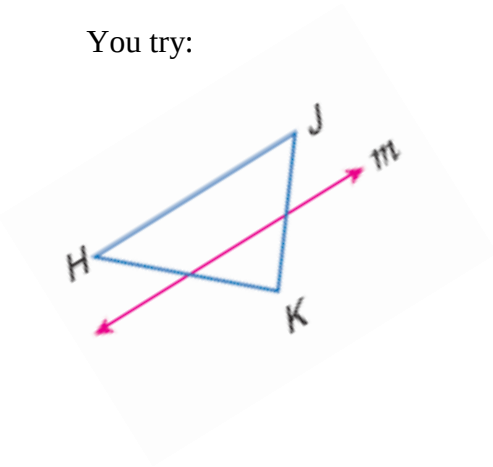
GEOMETRY **DATE: _____**

9-1 NOTES, Reflections

A reflection is _____



You try:



IMPORTANT TERMS:

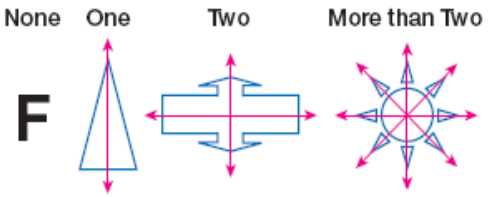
PREIMAGE:

IMAGE:

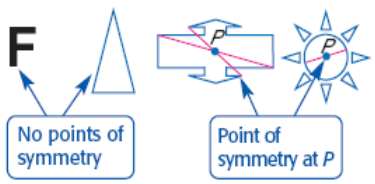
PRIME MARKS:

ISOMETRY or CONGRUENCE TRANSFORMATION:

LINE OF SYMMETRY or LINE OF REFLECTION:



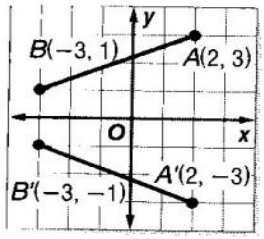
POINT of SYMMETRY:



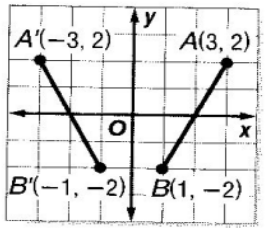
<u>Rules for Reflections on a Coordinate Plane</u>:

There are 4 common rules when reflecting a figure in a coordinate plane:

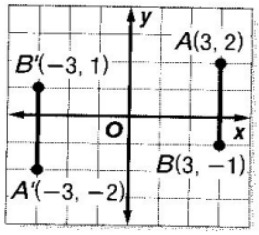
- Line of Reflection over the x-axis (y=0):



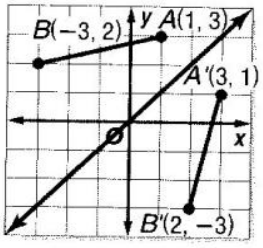
- Line of Reflection over the y-axis (x=0):



- Point of Reflection over the origin (0, 0):



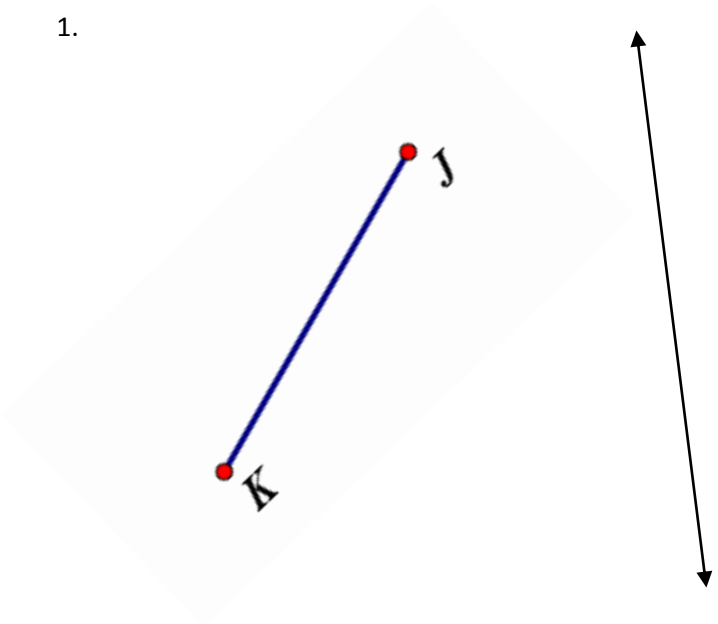
- Line of Reflection over the line y=x (inverse):



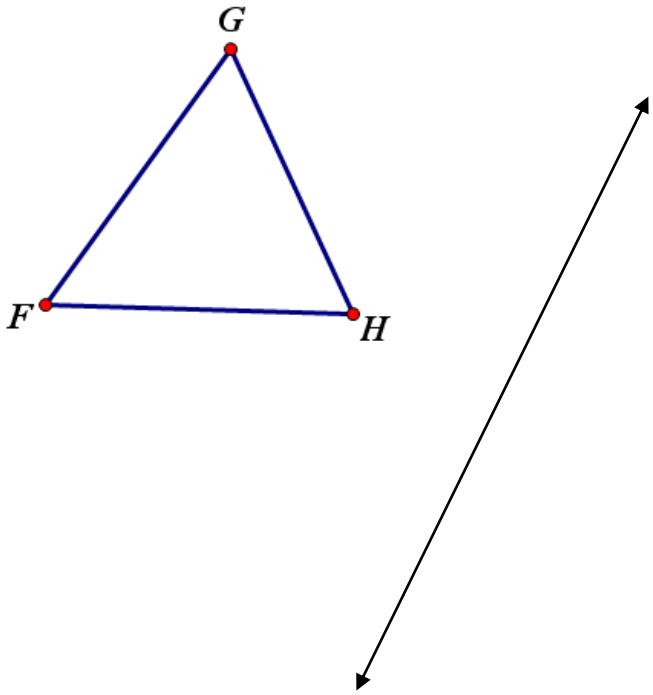
Basic Constructions of Reflections In Class

Reflect the given figure over the given line.

1.



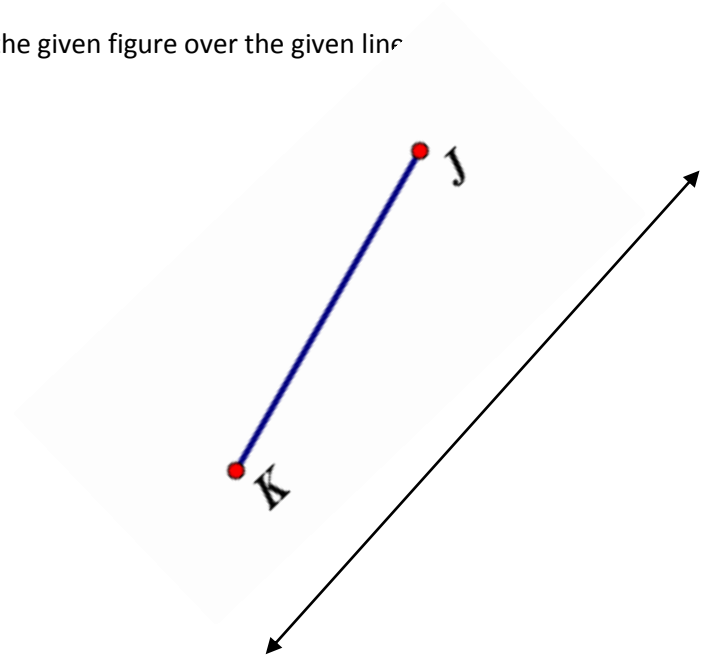
2.



Basic Constructions of Reflections Individual Practice

Reflect the given figure over the given line

1.



2.