

Concluding Composite Reflections Parallel and Intersecting Lines

Key

Based on Reflections Over Parallel Lines:

Conjecture: When a composite reflection occurs over two parallel lines, the resulting image is a ,

translation transformation.

The distance between the parallel lines will cause the distance in the

translation to move double left/right or double up/down.

Based on Reflections Over Intersecting Lines:

A reflection across : $y=0$ will result in $(x,y) \rightarrow (\underline{x}, \underline{-y})$

A reflection across : $x=0$ will result in $(x,y) \rightarrow (\underline{-x}, \underline{y})$

A reflection across : $y=x$ will result in $(x,y) \rightarrow (\underline{y}, \underline{x})$

A reflection across : $y=-x$ will result in $(x,y) \rightarrow (\underline{-y}, \underline{-x})$

A rotation R_{90° will result in $(x,y) \rightarrow (\underline{-y}, \underline{x})$

A rotation R_{-90° will result in $(x,y) \rightarrow (\underline{y}, \underline{-x})$

A rotation R_{180° will result in $(x,y) \rightarrow (\underline{-x}, \underline{-y})$

