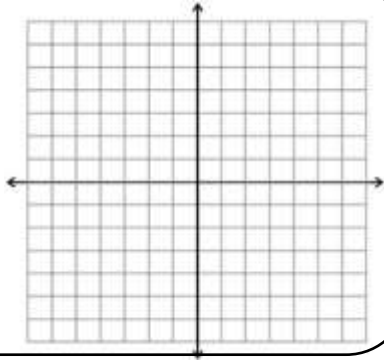


Reflections

A reflection is a _____ across a _____ of reflection that takes a pre-image input and creates an image output so that the segments connecting corresponding points are _____ by the reflection line.

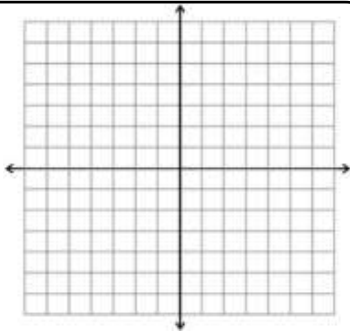
Reflection across x-axis
 $(x, y) \rightarrow (\quad , \quad)$

Pre-image Image



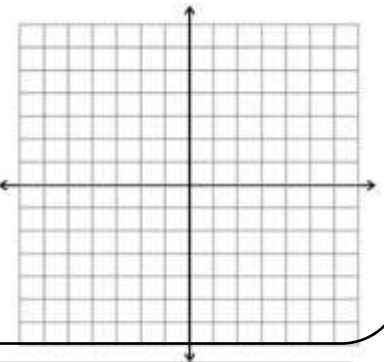
Reflection across y-axis
 $(x, y) \rightarrow (\quad , \quad)$

Pre-image Image



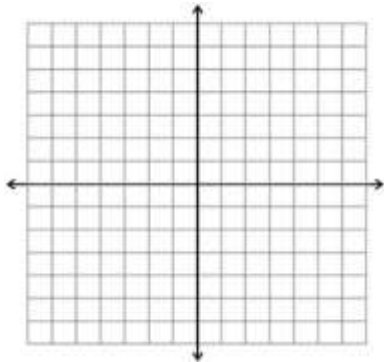
Reflection across $y = x$
 $(x, y) \rightarrow (\quad , \quad)$

Pre-image Image



Reflection across $y = -x$
 $(x, y) \rightarrow (\quad , \quad)$

Pre-image Image



Reflection across any vertical or horizontal line

Distance between pre-image and line of reflection equals

Distance between image and line of reflection

