

Rigid Motion Transformation

Rotation

Translation "slide"

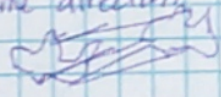
Reflection "flipped"

Dilation

Pre-image - the object prior to the transformation  $A$

Image - The object after the transformation  $A'$

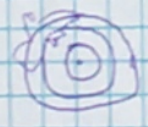
Translation: moves each point on the pre-image the same amount in the same direction



parallel & same length

Rotations: each point on the pre-image moves along concentric circles around the center of rotation

Center of rotation is the only point that doesn't move



Distance between the pre-image and center of rotation must be the same after the rotation.