

Types of Transformations

Big Picture

Transformations move and modify geometric shapes. There are several types of transformations that all transform figures in different ways. These transformations can be rigid (isometric) or non-rigid.

Key Terms

Transformation: An operation that moves, flips, or changes a figure to create a new figure.

Rigid: A transformation that preserves size and shape.

Isometry: Another word for rigid transformation, a transformation that does not change the shape or size of a figure.

Non-Rigid: A transformation that does not preserve size

Prelmage: The original figure before a transformation.

Image: The figure after a transformation.

Vector: A quantity that has direction and size

Rigid Transformations

Specifically, **rigid transformations** (or congruence transformations) transform a figure without changing its size or shape.

The three types of rigid transformations are:

- **Reflection:** A transformation that turns a figure into its mirror image by flipping it over a line.
- **Rotation:** A transformation that turns a figure around a fixed point to create an image.
- **Translation:** A transformation that moves every point in a figure the same distance in the same direction.

To distinguish between the preimage and the image, primes are used to label the image. The arrow \rightarrow is used to describe a transformation.

- **Example:** If the preimage is A , then the image would be A' . $A \rightarrow A'$

Reflections

Another way to describe a reflection is a "flip."

- Image is the same distance away from the reflection line as the preimage.

Reflections over the x-axis

Coordinates stay the same with a coordinate change.

- If (x, y) is reflected over the x -axis, then the image is $(x, -y)$.
- If (x, y) is reflected over $y = -4$, then the image is $(x, 2y + 8)$.

Reflections over the y-axis

Coordinates change with a coordinate stay constant.

- If (x, y) is reflected over the y -axis, then the image is $(-x, y)$.
- If (x, y) is reflected over $y = -4$, then the image is $(-x, 2y + 8)$.

Reflections over a diagonal

They stay the same but in the other direction, but the x and $y = -x$ and $y = -x$ are special cases.

- If (x, y) is reflected over the $y = x$, then the image is (y, x) .
- If (x, y) is reflected over $y = -x$, then the image is $(-y, -x)$.



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