

GEOMETRIC TRANSFORMATIONS

A TYPES OF TRANSFORMATIONS

Transformations are ways to move, flip, or turn a shape.

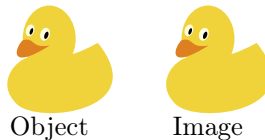
Definition Object and Image

When a transformation is applied to a shape, the original shape is called the **object**. The resulting shape after the transformation is called the **image**.

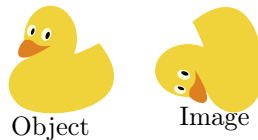
Definition Types of Transformations

There are several types of transformations, including:

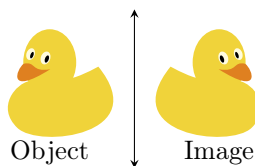
- **Translation:** Moves the shape to a new position without changing its shape, size, or orientation.



- **Rotation:** Turns the shape.



- **Reflection:** Flips the shape.



B PATTERNS

Definition Pattern

A **pattern** is created by repeating a transformation (such as translation or rotation) to form a design.

Ex: The following pattern is created by repeating a translation:

