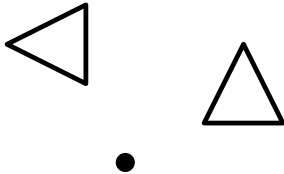
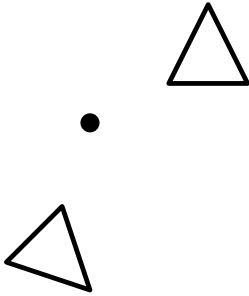
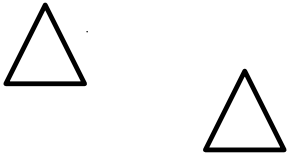


Rotation

Examples & Non-Examples

Example	Example	Non-Example
		

Definition

A **rotation** is a transformation that **turns a figure** around a fixed point, called the **center of rotation**, through a specified **angle** and **direction**.

Key Points:

- It is a type of **rigid motion**, meaning the figure's **size and shape stay the same**.
- The **center of rotation** does not move.
- Each point in the figure moves along a **circular arc** around the center.
- The **angle of rotation** tells how far the figure is turned (e.g., 90° , 180° , 270°).
- A **positive angle** means **counterclockwise rotation**.
- A **negative angle** means **clockwise rotation**.

Example:

Rotating a rectangle 180° about the origin turns the entire shape around the origin, producing an image that is congruent but in a new orientation.

