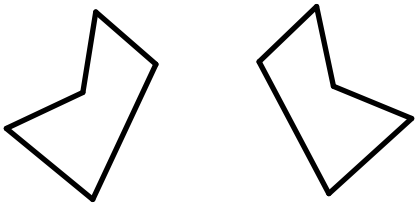
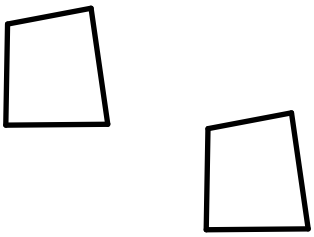
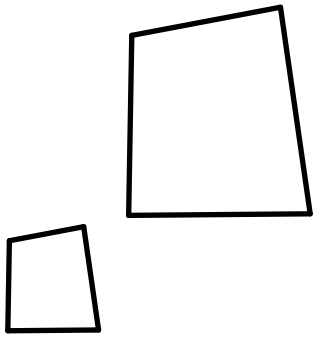
Rigid Motion

Examples & Non-Examples

Example	Example	Non-Example
		

Definition

A **rigid motion** is a transformation that **preserves the size and shape** of a figure.

Key Points:

- Also called a **congruence transformation**.
- **Distances** between points and **angle measures** stay the same.
- The figure may change **position** or **orientation**, but not its shape or size.

The 3 types of rigid motions:

1. **Translation** (sliding)
2. **Reflection** (flipping)
3. **Rotation** (turning)

Example:

If a square is rotated 90° or reflected over a line, it's been moved — but it's still the **same square**, just in a different position.