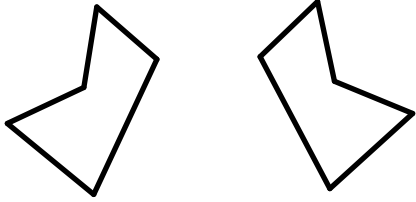
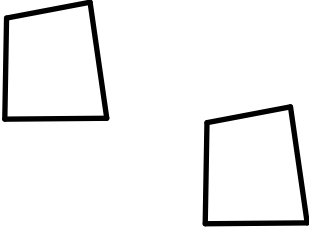
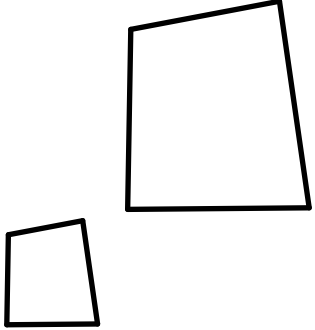


Congruence Transformation

Examples & Non-Examples

Example	Example	Non-Example
		

Definition

A **congruence transformation** (also called a **rigid transformation**) is a transformation that **preserves the size and shape** of a figure.

Key Points:

- The image is **congruent** to the original figure — all corresponding sides and angles are equal.
- It does **not** change the **lengths** of sides or the **measures** of angles.
- The three main congruence transformations are:
 - **Translation** (sliding)
 - **Rotation** (turning)
 - **Reflection** (flipping)

Example:

If a triangle is **rotated 180°**, it's been through a congruence transformation because the new triangle is the same size and shape as the original.

