

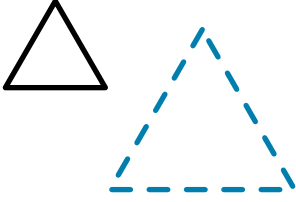


Translation

Examples & Non-Examples

Example	Example	Non-Example
		

Definition

A **translation** is a transformation that **slides every point** of a figure the **same distance** in the **same direction**.

Key Points:

- The figure **does not turn or flip** — it just moves.
- A translation is a **rigid motion**, so the **shape and size** of the figure stay the same.
- Every point in the figure moves **parallel paths**.
- Translations can be described using a **coordinate rule**, such as: $(x, y) \rightarrow (x + a, y + b)$, where a is the horizontal shift and b is the vertical shift.

Example:

If a point at $(2, 3)$ is translated using the rule $(x, y) \rightarrow (x + 4, y - 2)$, it moves to $(6, 1)$.

