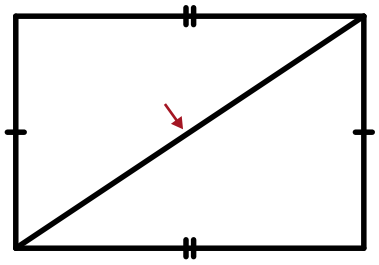
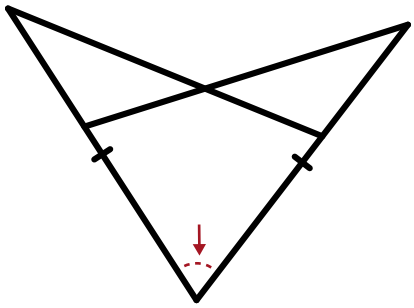
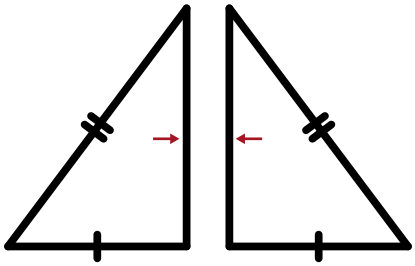
Reflexive Property

Examples & Non-Examples

Example	Example	Non-Example
		

Definition

Reflexive Property: The reflexive property states that any geometric figure (or number) is congruent or equal to itself.

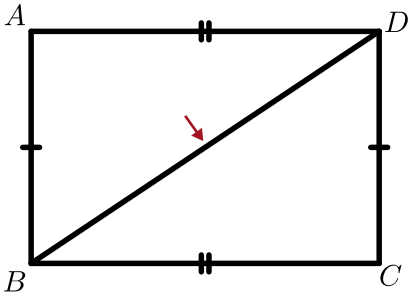
Key points:

- In algebra: $a = a$ for any real number a.
- In geometry: Any segment is congruent to itself $\overline{AB} \cong \overline{AB}$, and any angle is congruent to itself $\angle A \cong \angle A$.
- Often used in proofs when two triangles share a side or an angle.

Proof Example

Given $\overline{DC} \cong \overline{BA}$, $\overline{CB}$ $\overline{AD}$

Prove $\Delta DCB \cong \Delta BAD$



Statements	Reasons
1. $\overline{DC} \cong \overline{BA}$, $\overline{CB} \cong \overline{AD}$	1. Given
2. $\overline{BD} \cong \overline{DB}$	2. Reflexive Property
3. $\Delta DCB \cong \Delta BAD$	3. SSS