

## Common Core Geometry Proof – Parallelograms\_1

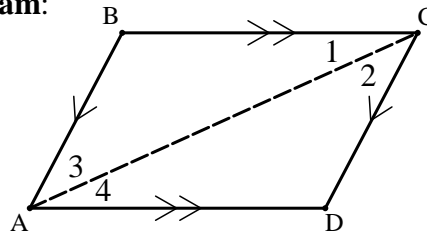
### Opposite Sides

**Theorem:** If a quadrilateral is a parallelogram, then both pairs of opposite sides are congruent.

**Given:** ABCD is a parallelogram  
Diagonal  $\overline{AC}$

**Prove:**  $\overline{AB} \cong \overline{DC}$  and  $\overline{BC} \cong \overline{AD}$

**Diagram:**



Statements	Reasons