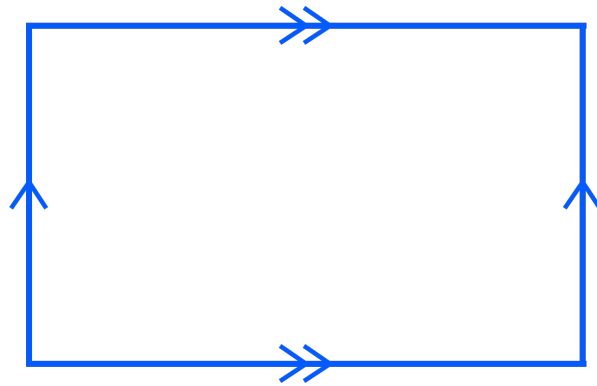


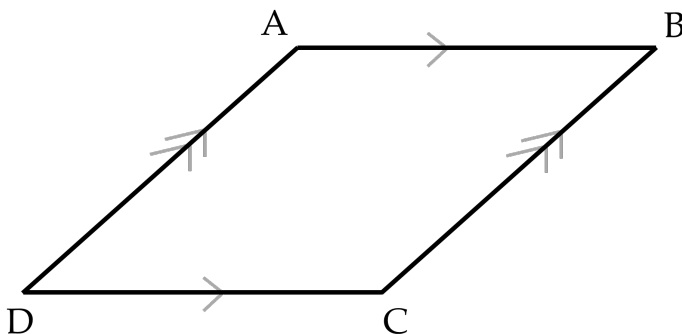
Parallelogram

A **parallelogram** is a **quadrilateral** with two pairs of parallel sides



Parallelogram

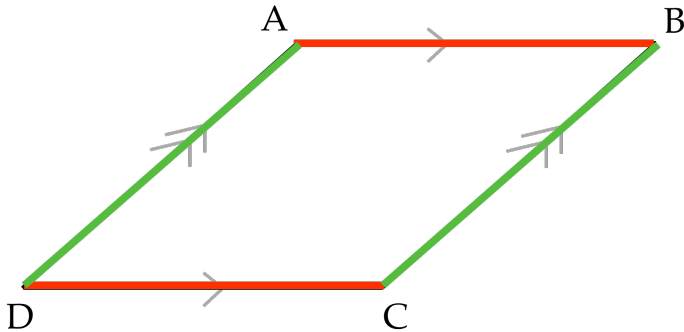
4 Properties of **Parallelograms**



1. Opposite Sides are congruent
2. Opposite angles are congruent
3. The diagonals bisect each other
4. Consecutive Angles are Suppl.

Parallelogram

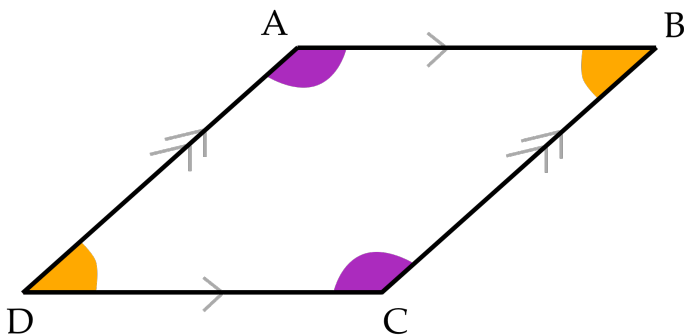
4 Properties of **Parallelograms**



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 $\overline{AB} \cong \overline{DC}$ $\overline{DA} \cong \overline{CB}$
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Parallelogram

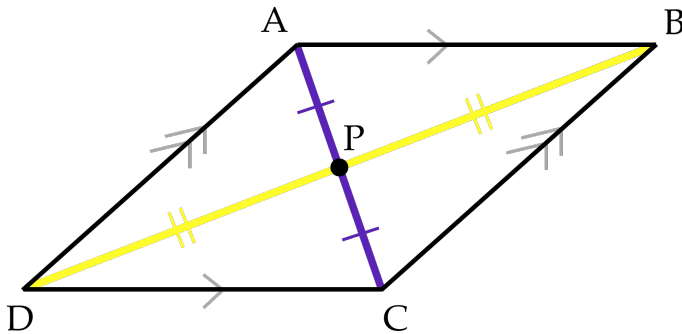
4 Properties of **Parallelograms**



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2. Opposite angles are congruent
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Parallelogram

4 Properties of Parallelograms



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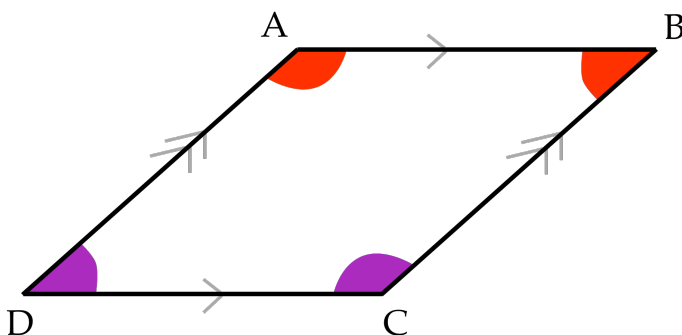
3. The diagonals bisect each other

$$\overline{AP} \cong \overline{CP} \quad \overline{DP} \cong \overline{BP}$$

4. Consecutive Angles are Suppl.

Parallelogram

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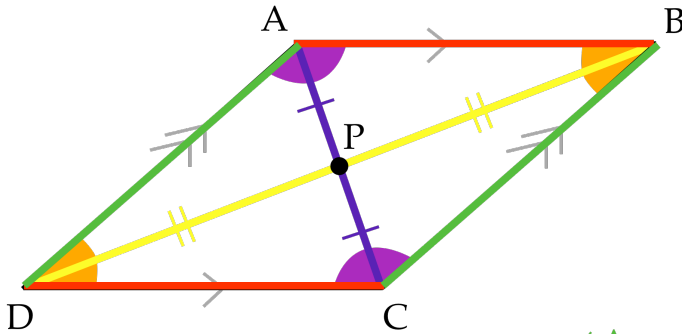
4. Consecutive Angles are Suppl.

$\angle A$ and $\angle D$ are suppl. $\angle A$ and $\angle B$ are suppl.

$\angle B$ and $\angle C$ are suppl. $\angle D$ and $\angle C$ are suppl.

Parallelogram

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