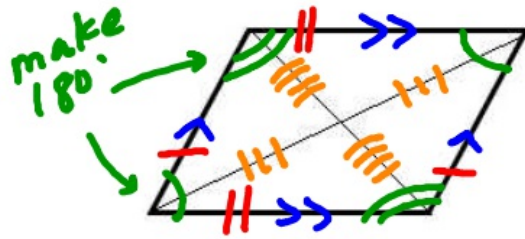


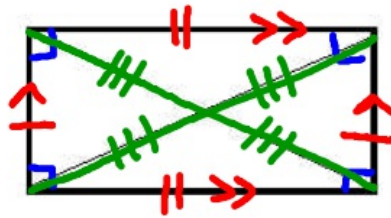
# Parallelograms



• Def: A quadrilateral with 2 pairs of parallel sides

Properties

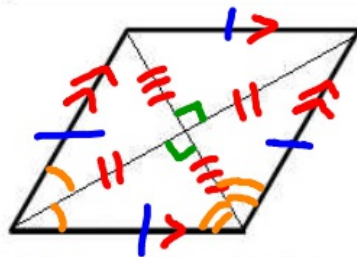
- Opposite sides congruent
- Opposite angles congruent
- Consecutive angles supplementary
- Diagonals bisect each other



• Def: A quadrilateral with 4 right angles

Properties

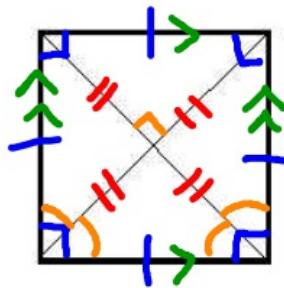
- All parallelogram properties apply
- Diagonals are congruent



• Def: A quadrilateral with 4 congruent sides

Properties

- All parallelogram properties apply
- Diagonals are perpendicular
- Diagonals are angle bisectors



• Def: A quadrilateral with 4 congruent sides and 4 right angles

Properties

- A square is a parallelogram, rectangle, and rhombus simultaneously, so all above properties apply.