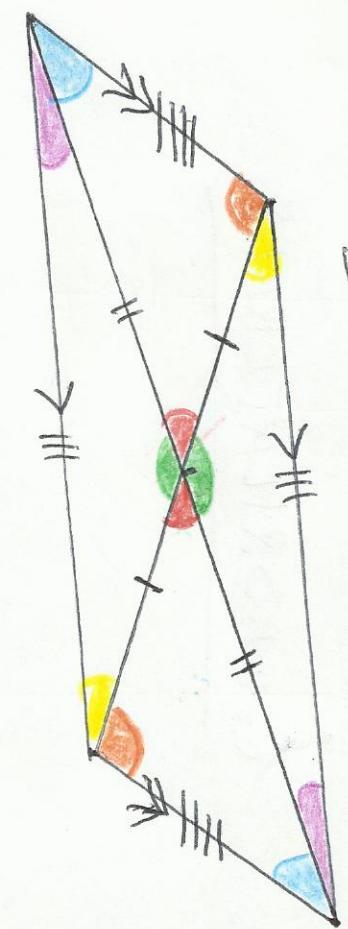


PARALLELOGRAM



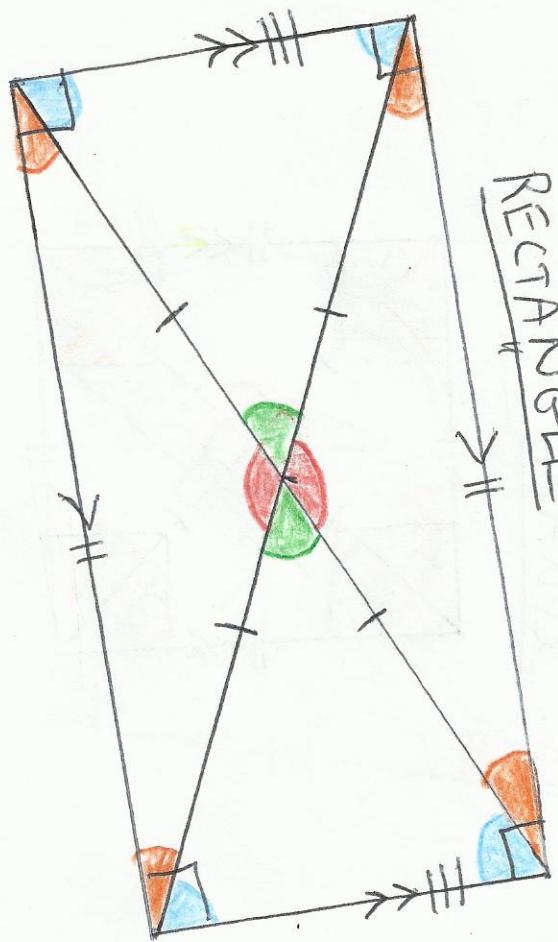
Properties:

- ★ • Both pairs opp. sides \parallel . (Definition)
- ★ • Both pairs opp. sides \cong .
- ★ • Diagonals bisect each other.
- ★ • Both pairs opp. $\angle s$ are \cong .
- Consecutive angles supplementary (same-side interior)

★ Proving a quad. is a Parallelogram

- same pair opp. sides both \cong and \parallel .

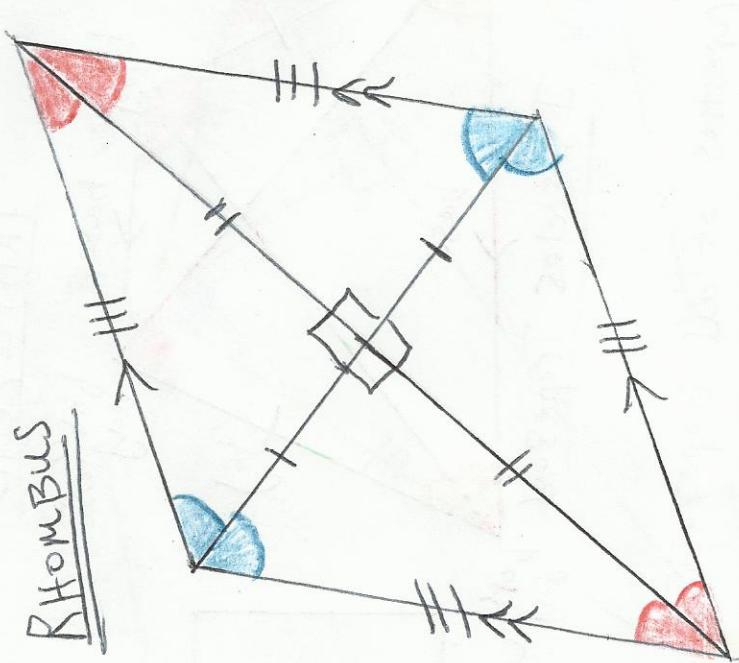
RECTANGLE



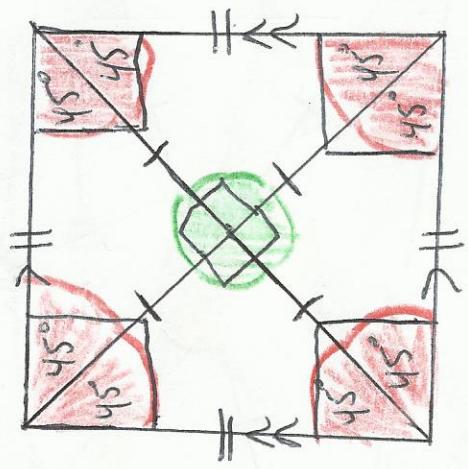
Properties:

- All prop. of parallelograms.
- Diagonals are \cong .
- All $\angle s$ are right angles.

~~• same pair opp. sides both \cong and \parallel .~~



SQUARE

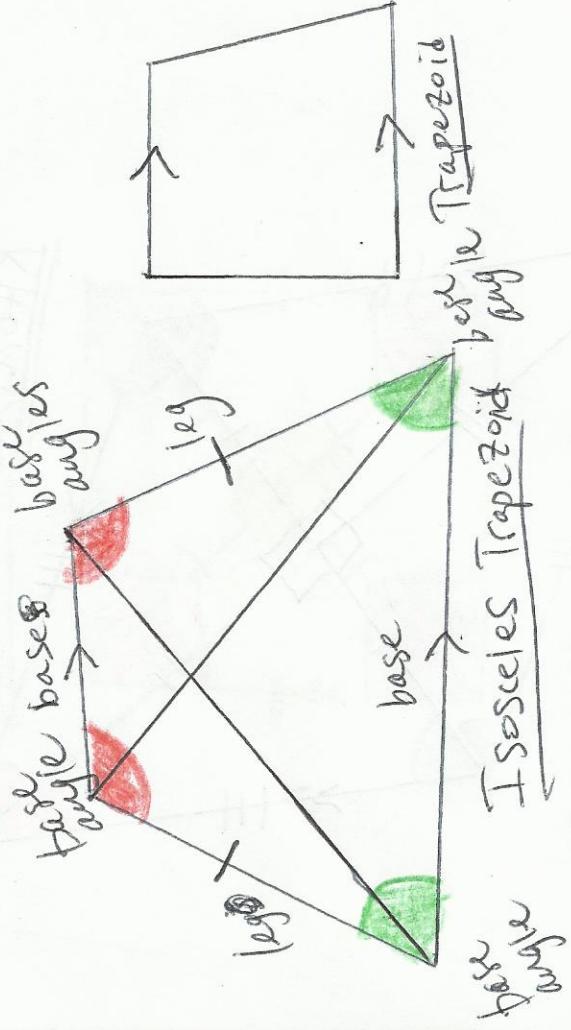


Properties:

- All Properties of a parallelogram.
- All Properties of rectangles.
- All 4 sides \cong .
- Diagonal bisects opp. \angle s
- Diagonals are \perp .

- Properties:
- All properties of parallelograms
 - Diagonals are \perp .
 - All sides \cong .
 - Diagonals bisect opp. \angle s

TRAPEZOID



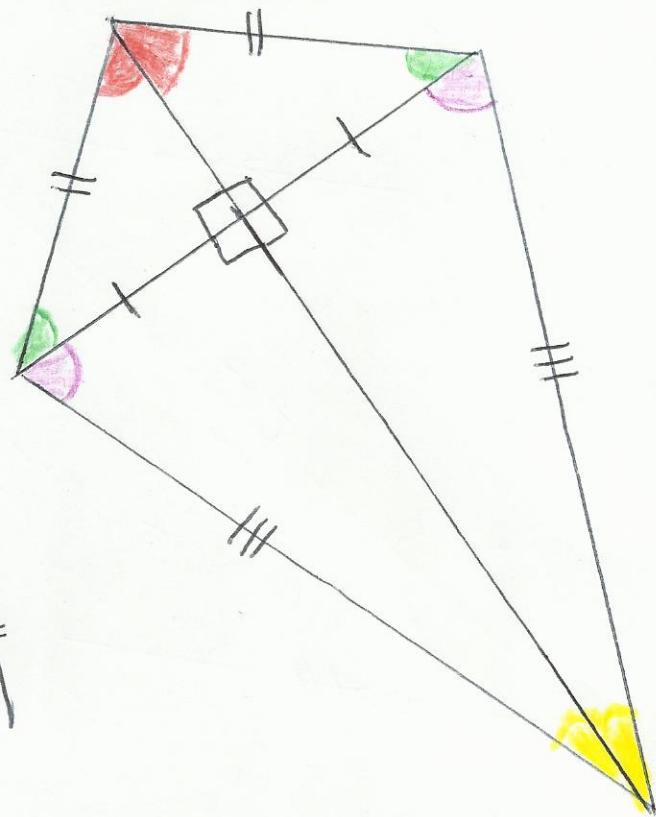
Properties of all trapezoids:

- One pair opp. sides \parallel . (bases)
 - ↳ non- \parallel sides called "legs"

Properties of Isosceles Trapez. only:

- diagonals are \cong .
- legs are \cong .
- both pairs base angles \cong .
 - base
 - median
 - base
- median = $\frac{b_1 + b_2}{2}$
 - ↳ Average of bases

KITE



Properties:

- Diagonals \perp .
- One diagonal is bisected by the other diagonal.
- Non-bisected diagonal bisects opposite L's.
- Two pairs adjacent sides \cong .