

Definitions:

Quadrilateral - a four-sided polygon

Concave - a polygon with at least one reflex interior angle

Parallelogram - a quadrilateral with 2 pairs of parallel sides

Trapezoid - a quad. with 1 pair of parallel sides

Trapezium - a quad. with no parallel sides

Rectangle - an equiangular quad.

Rhombus - an equilateral quad.

Square - a regular quad.

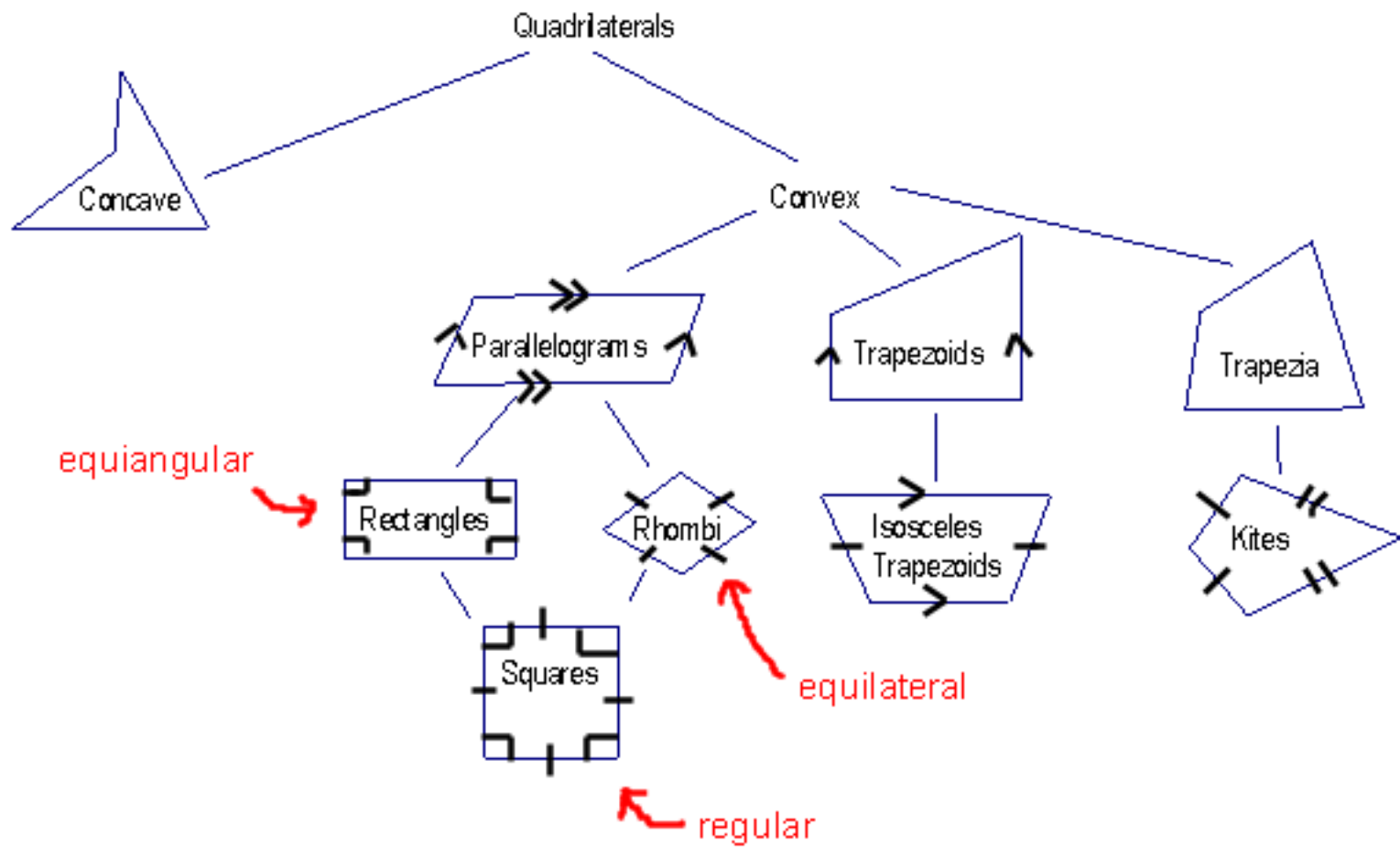
Isosceles Trapezoid - a trapezoid with congruent legs

Kite - a trapezium with 2 pairs of congruent consecutive sides

Notes:

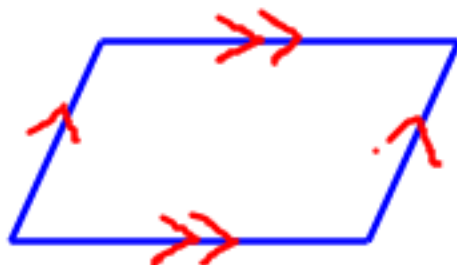
Rectangles, rhombi, and squares are all parallelograms.

A square is both a rectangle and a rhombus.

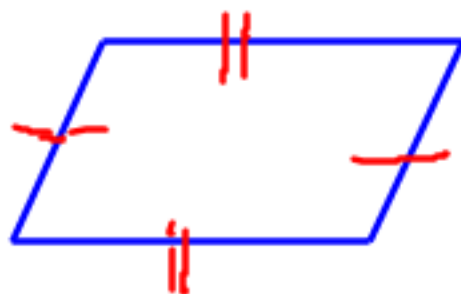


Properties of Parallelograms:

1. (def) Both pairs of opposite sides are parallel.



2. Both pairs of opposite sides are congruent.



Properties of Parallelograms (cont'd):

- 3. Both pairs of opposite angles are congruent.
- 4. Consecutive angles are supplementary (s.s. int.).



- 5. Diagonals bisect each other.

