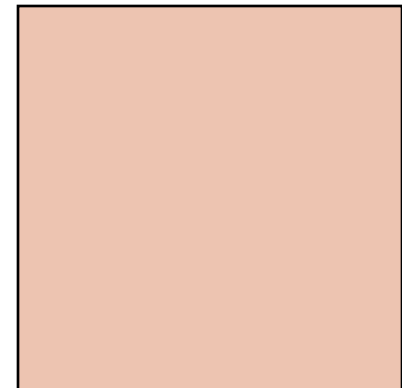
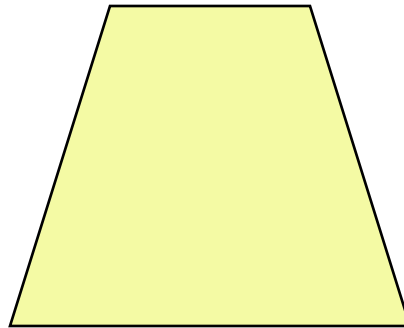
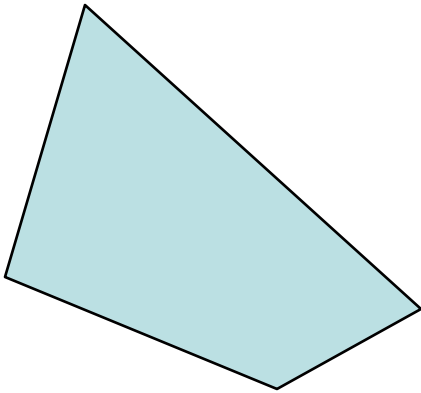


Quadrilaterals

Kimberly A. Yuretich

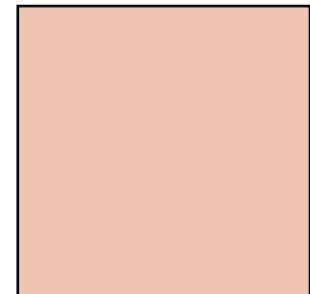
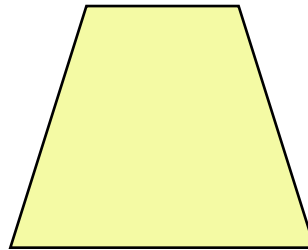
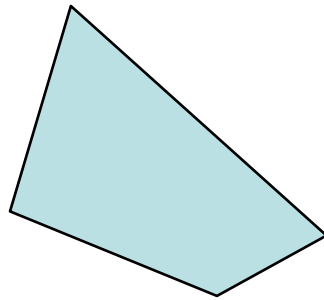
Quadrilateral

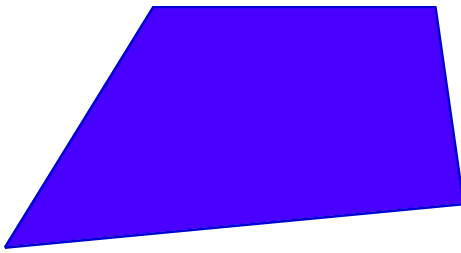
- a quadrilateral is a polygon with 4 sides.



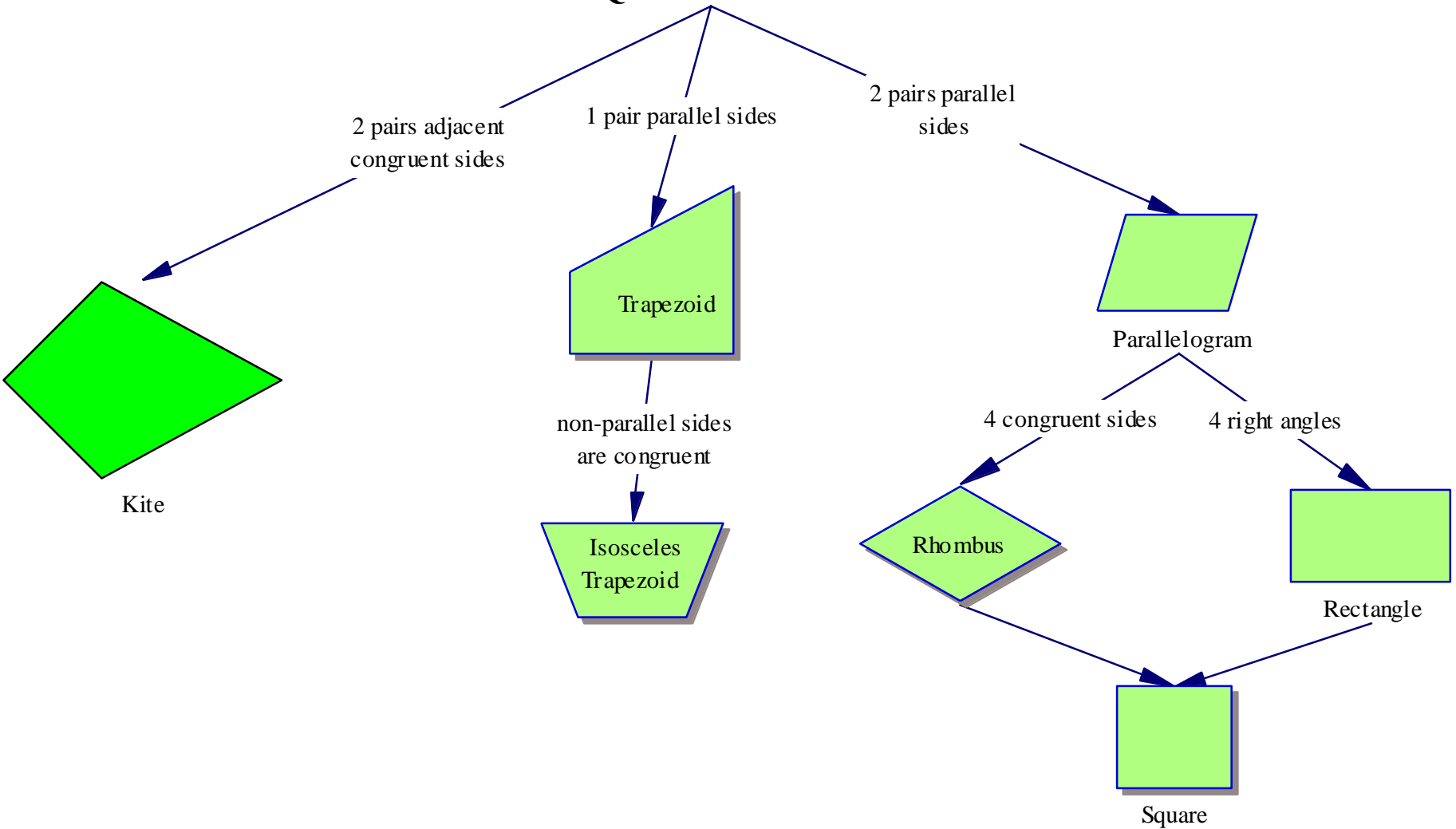
Specific Quadrilaterals

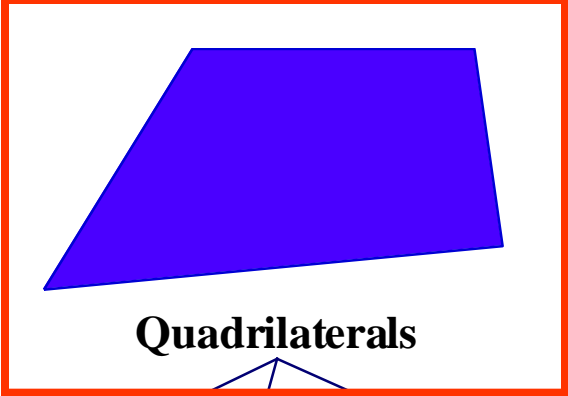
- There are several specific types of quadrilaterals. They are classified based on their sides or angles.





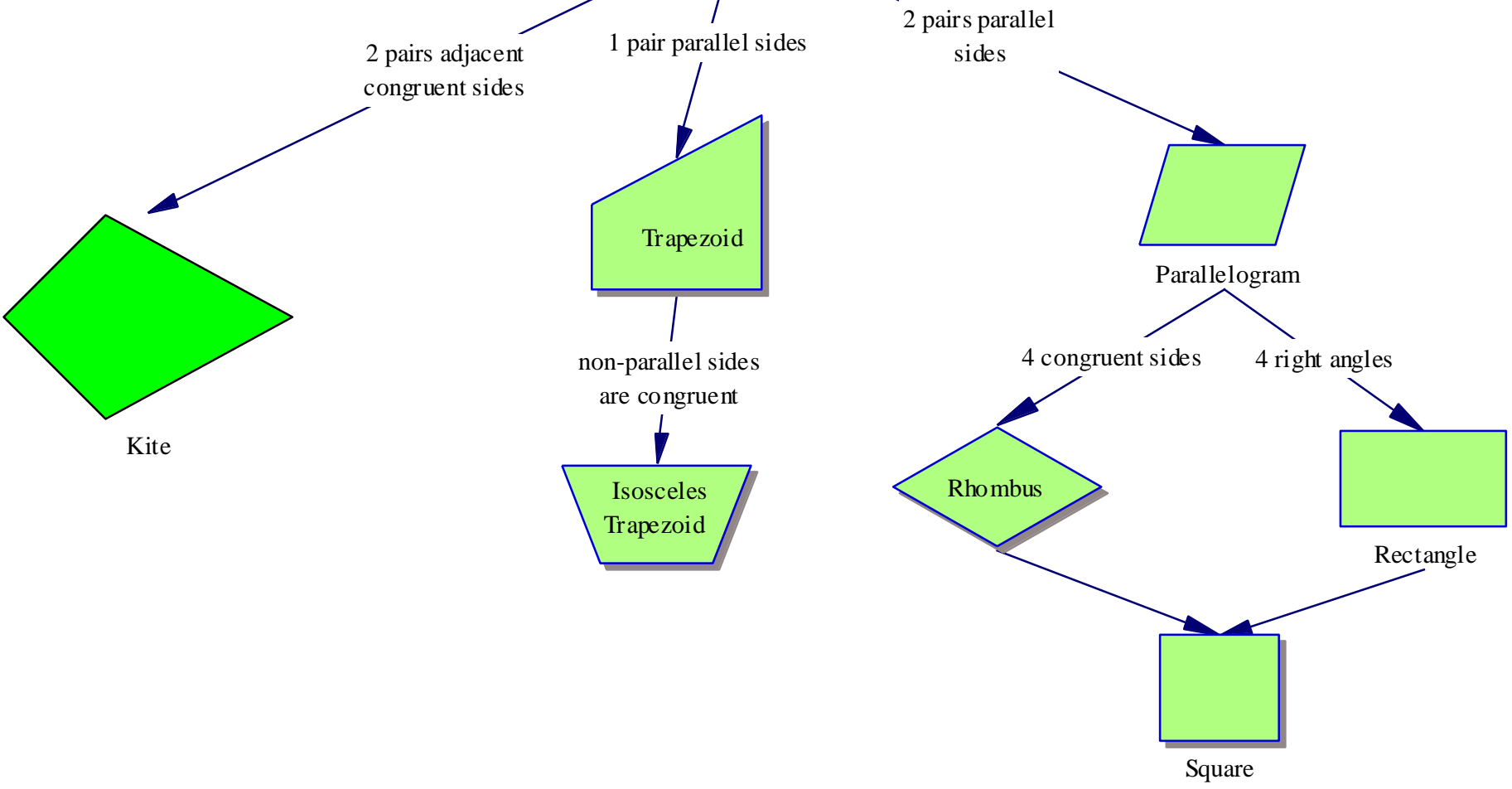
Quadrilaterals



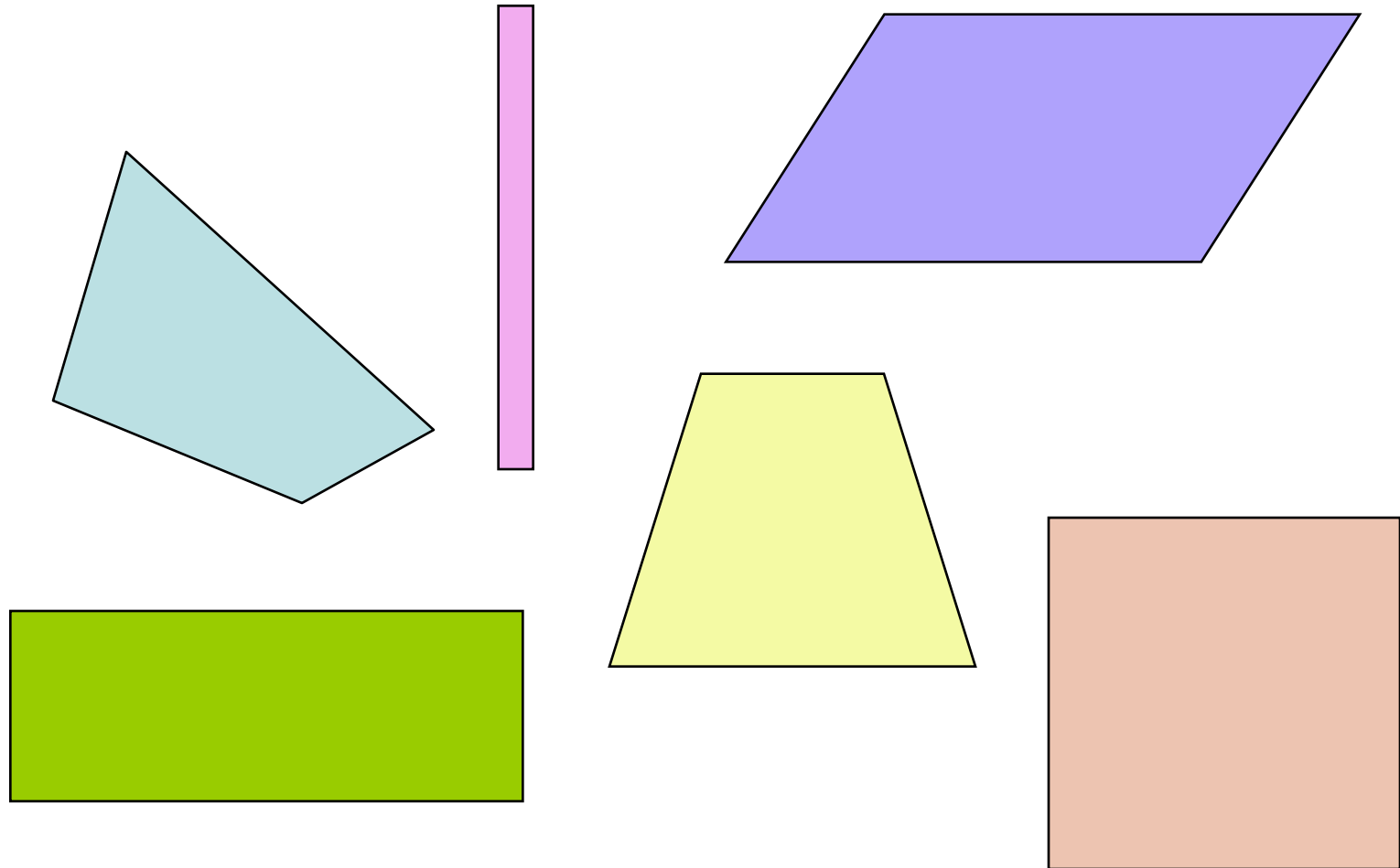


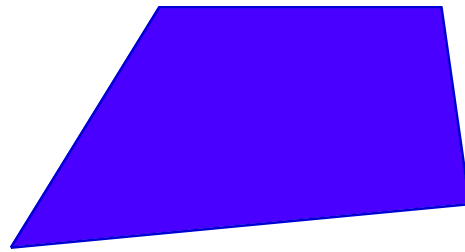
Quadrilaterals

A quadrilateral simply has 4 sides – no other special requirements.



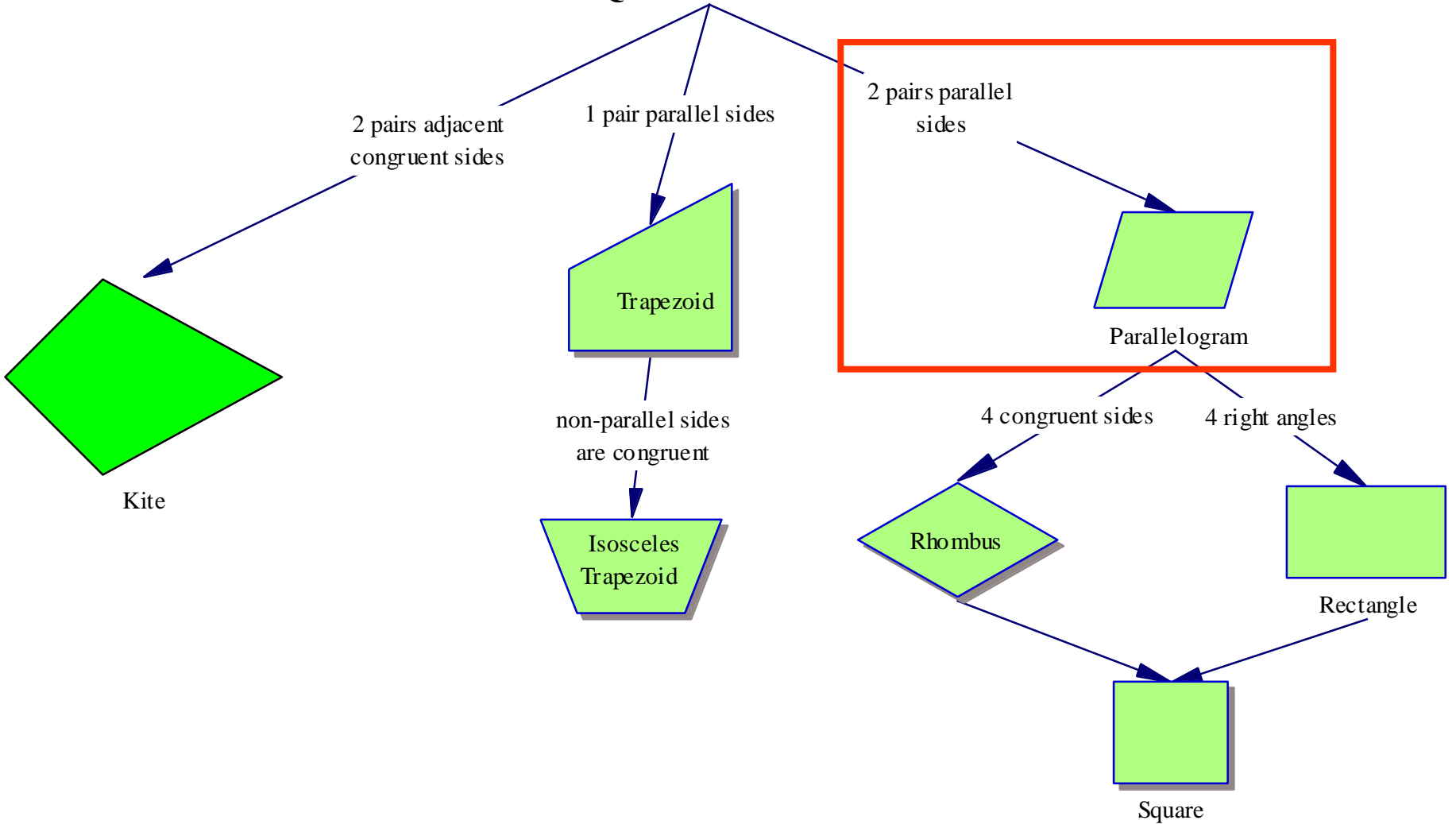
Examples of Quadrilaterals





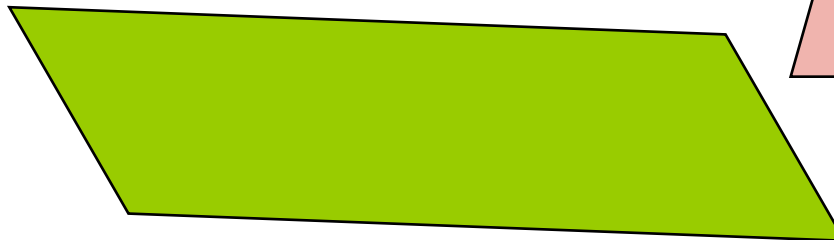
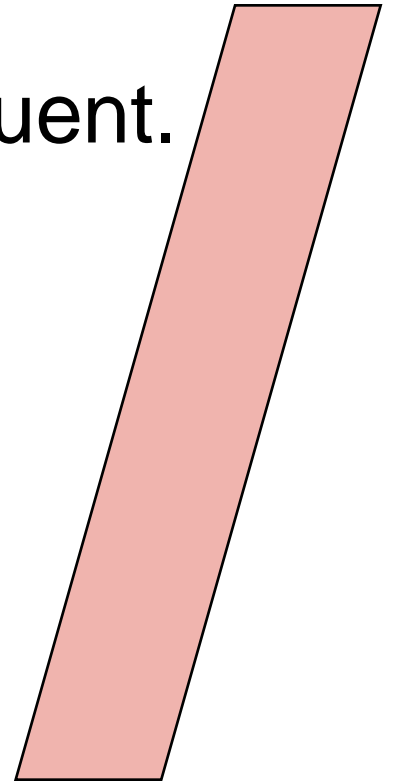
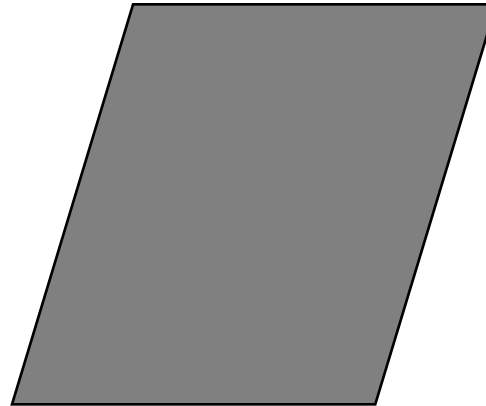
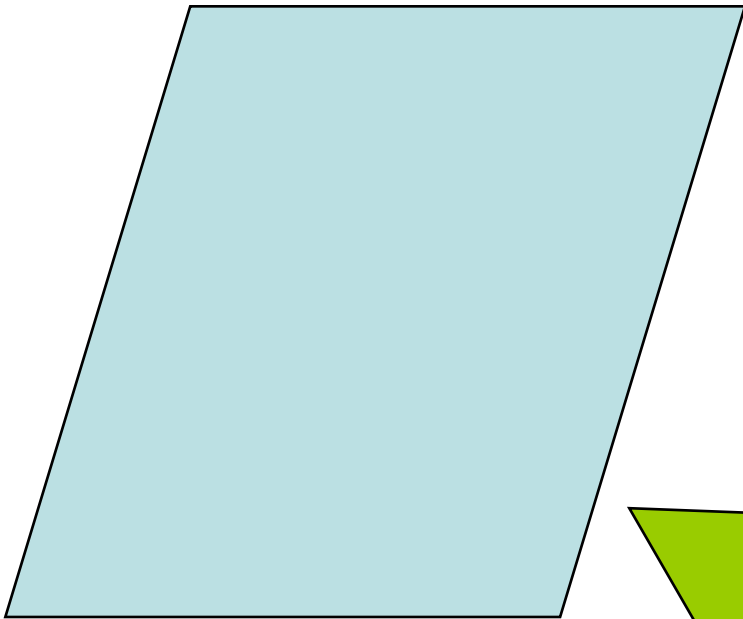
**A parallelogram
has two pairs of
parallel sides.**

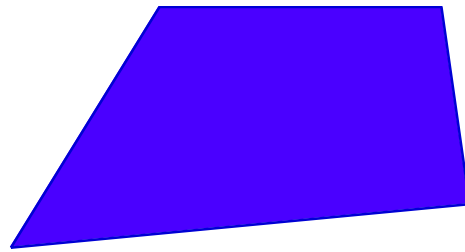
Quadrilaterals



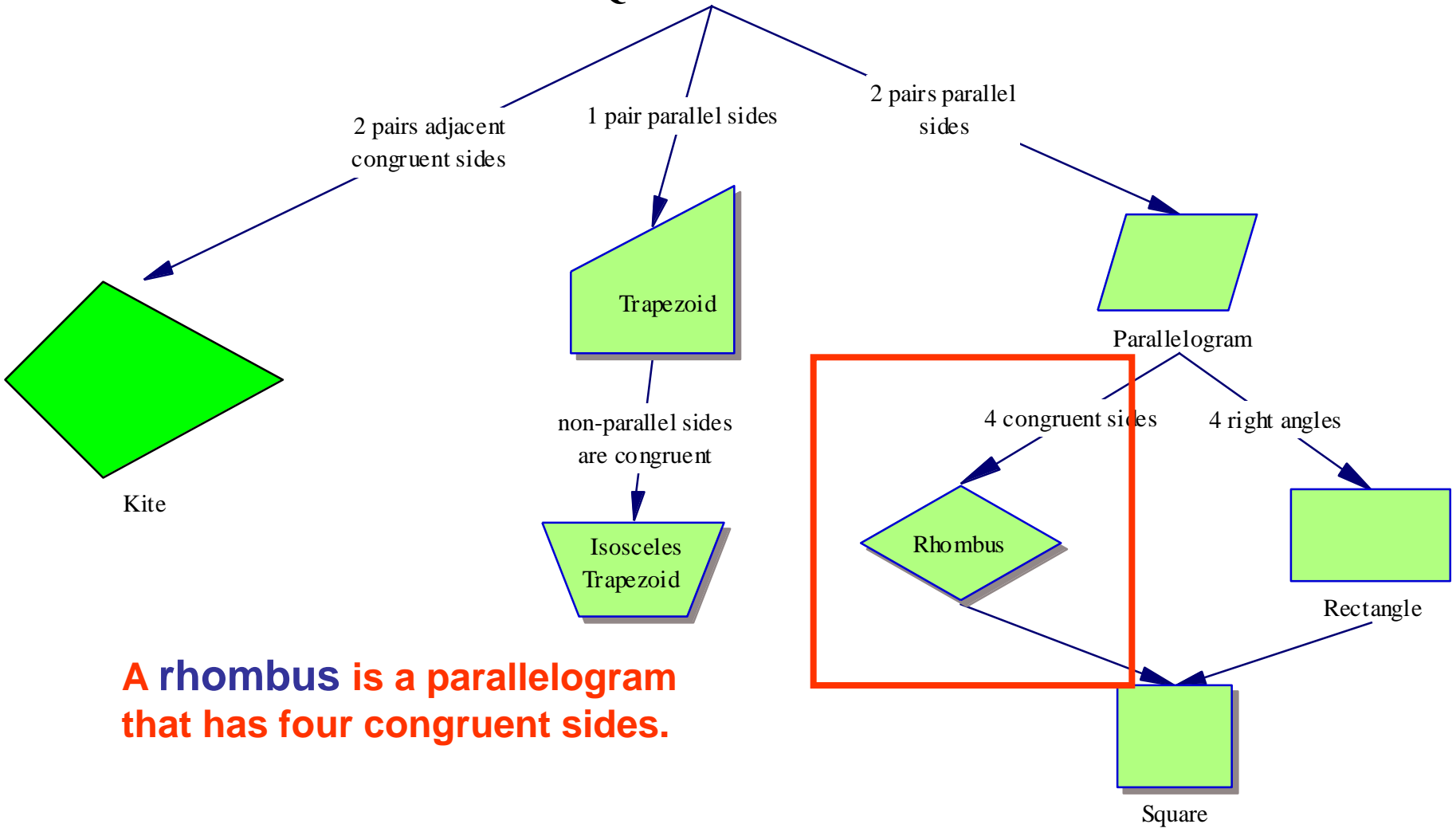
Parallelogram

- Two pairs of parallel sides
- opposite sides are actually congruent.





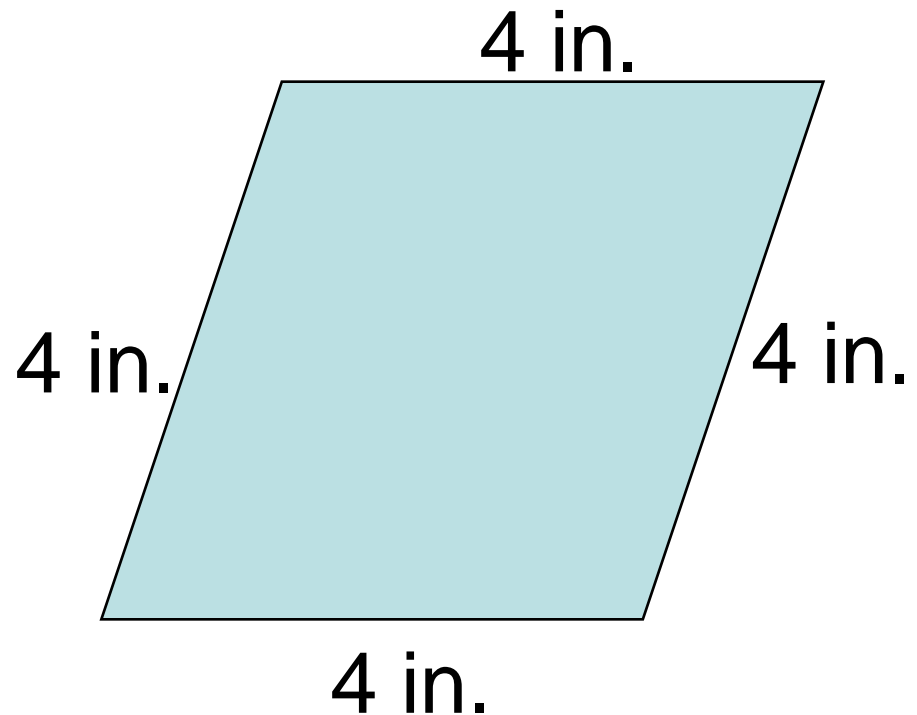
Quadrilaterals

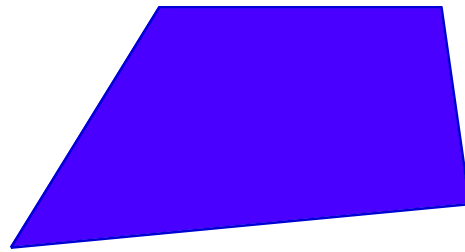


A rhombus is a parallelogram that has four congruent sides.

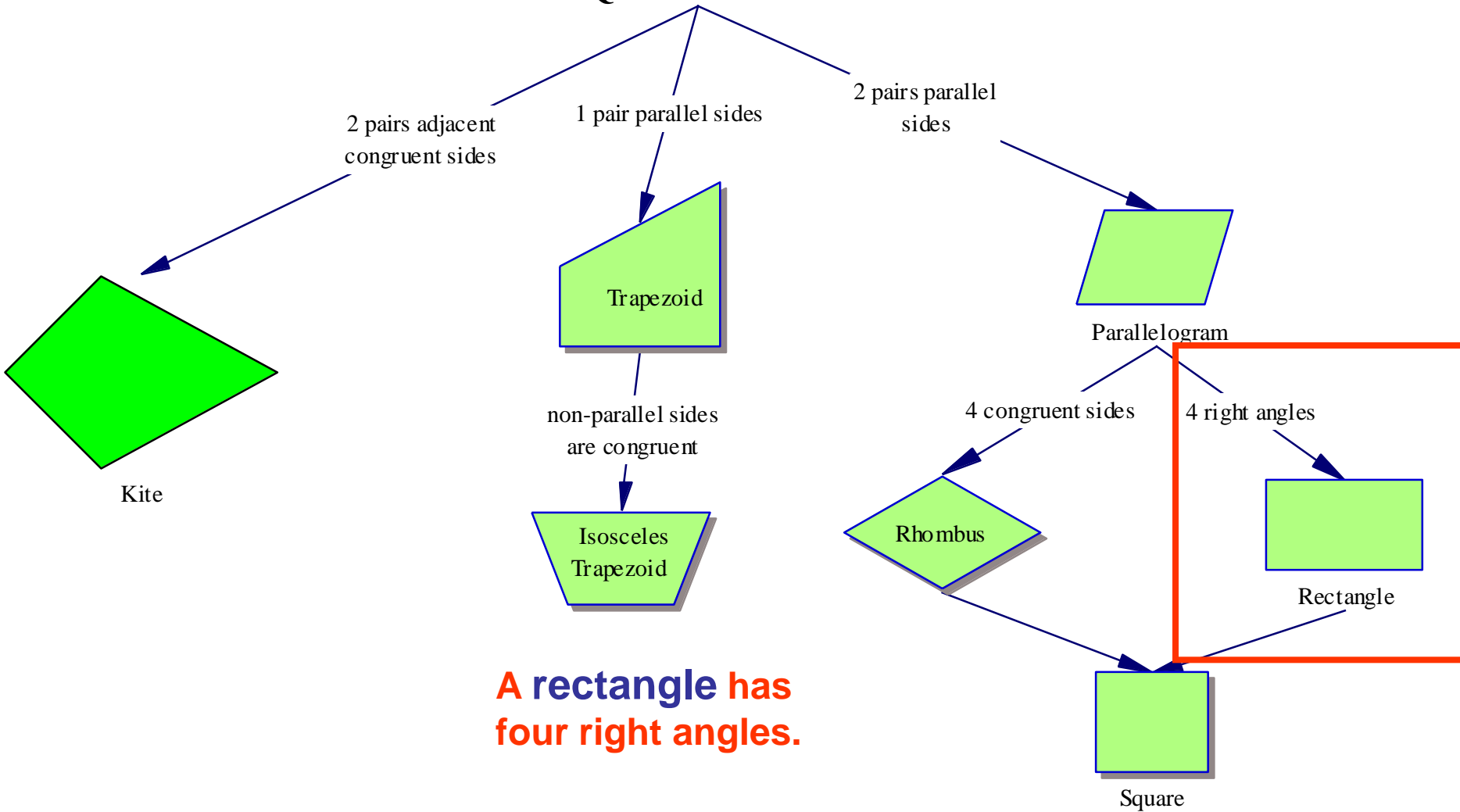
Rhombus

- Still has two pairs of parallel sides; with opposite sides congruent.





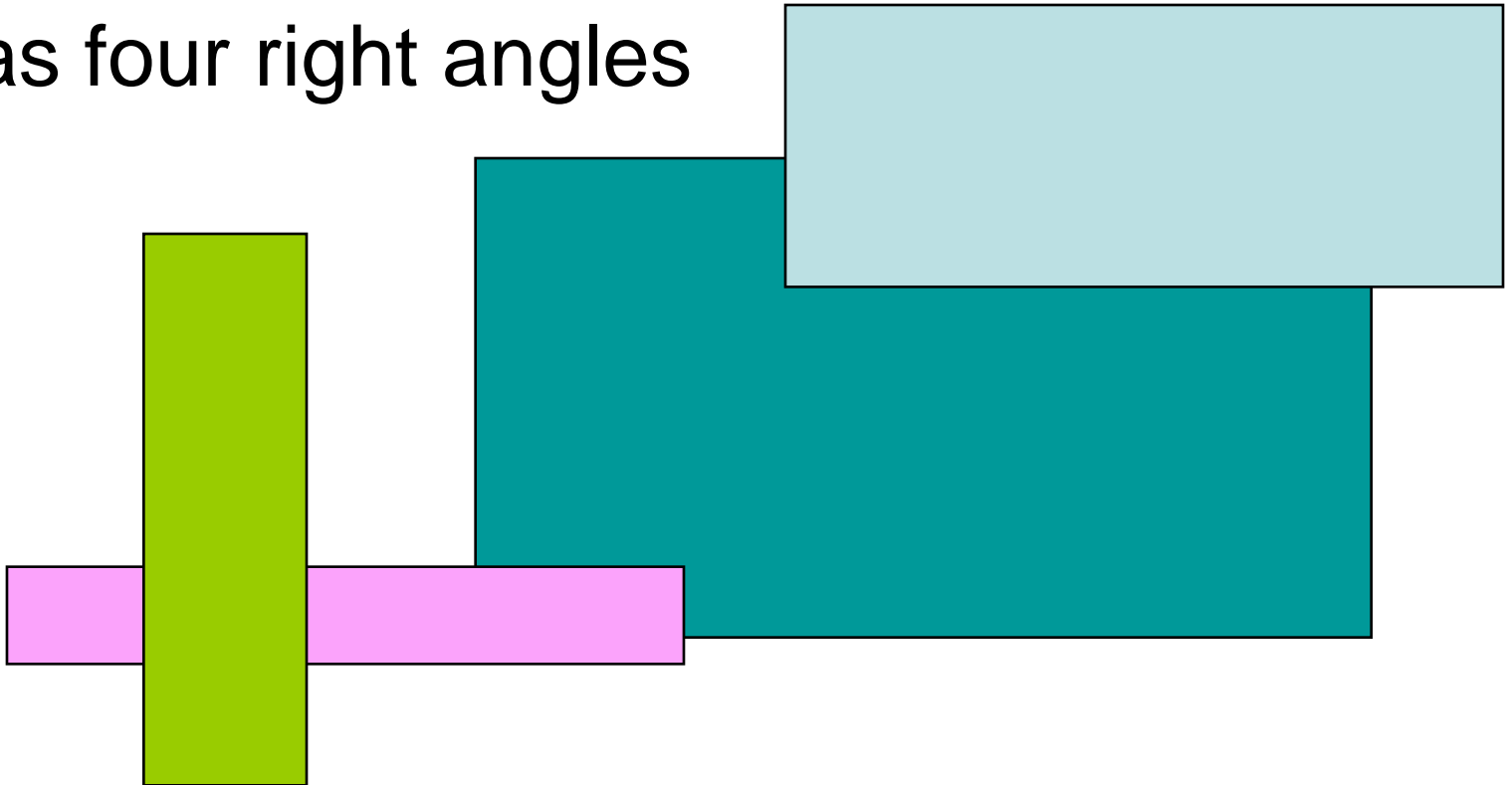
Quadrilaterals

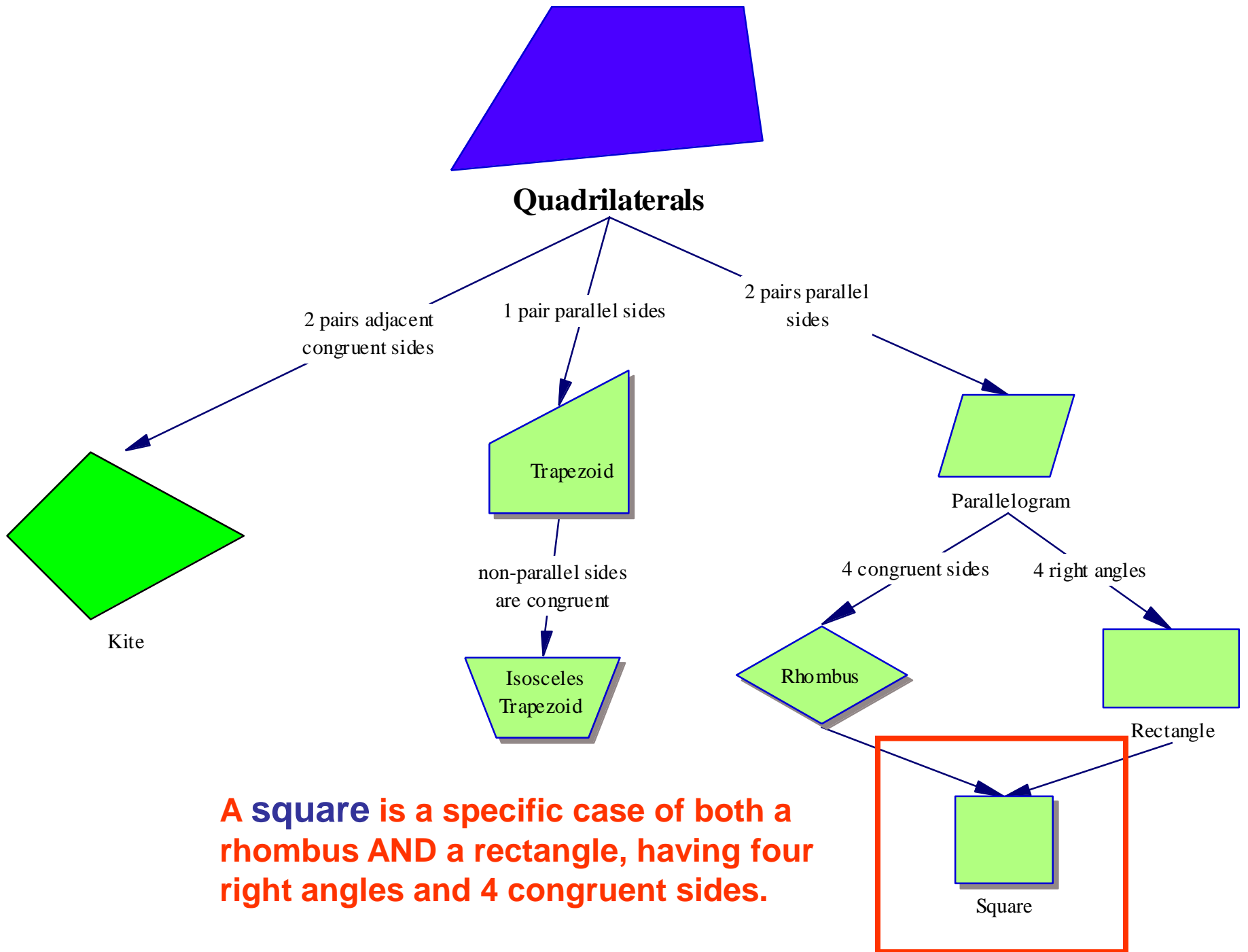


A rectangle has four right angles.

Rectangle

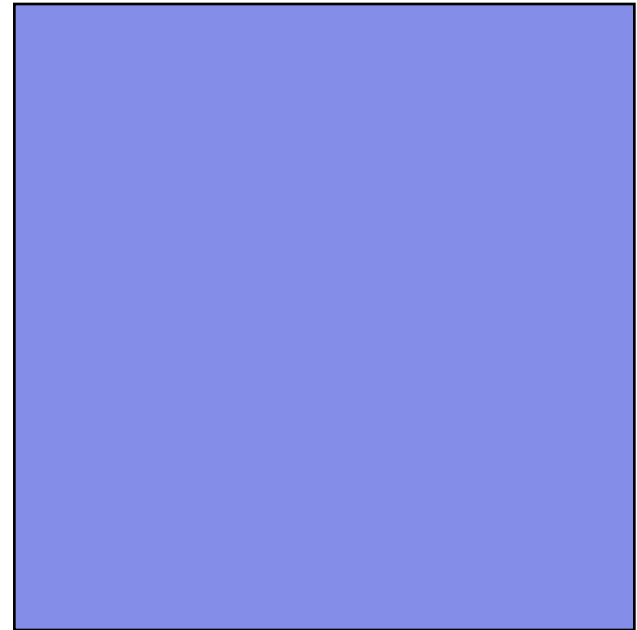
- Still has two pairs of parallel sides; with opposite sides congruent.
- Has four right angles

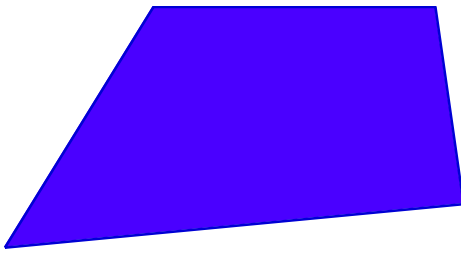




Square

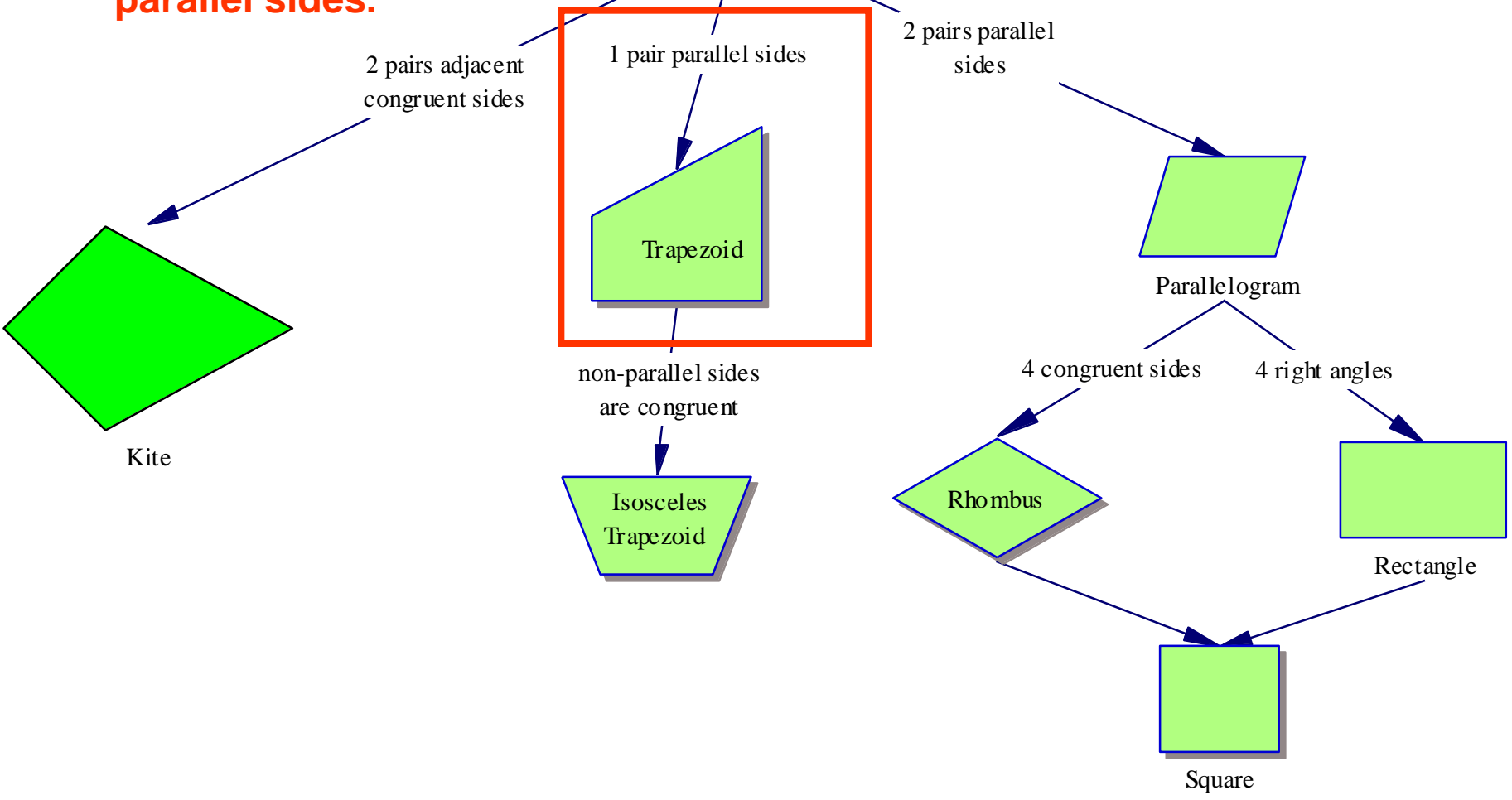
- Still has two pairs of parallel sides.
- Has four congruent sides
- Has four right angles

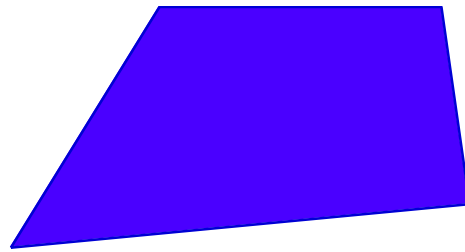




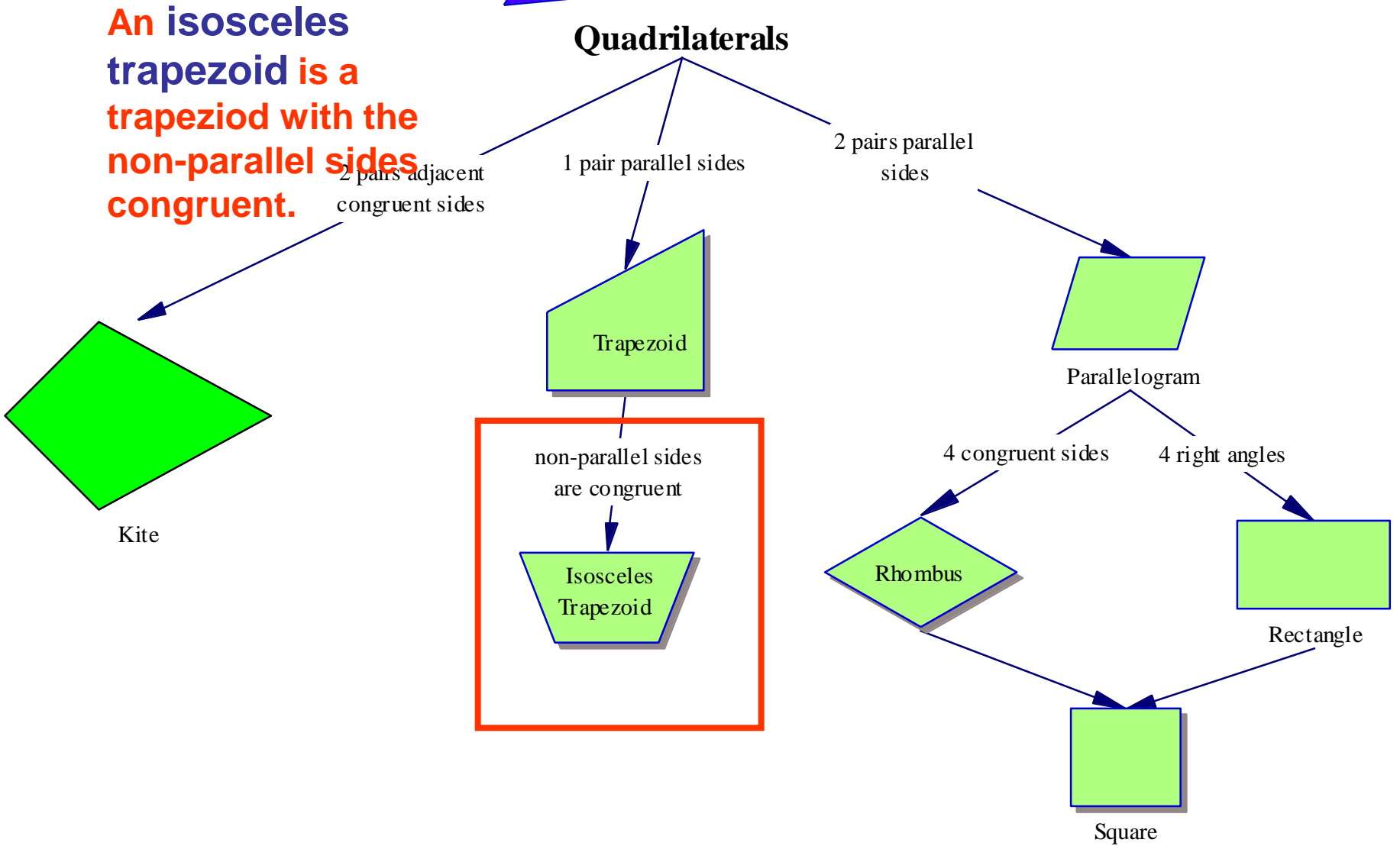
Quadrilaterals

A trapezoid has only one pair of parallel sides.



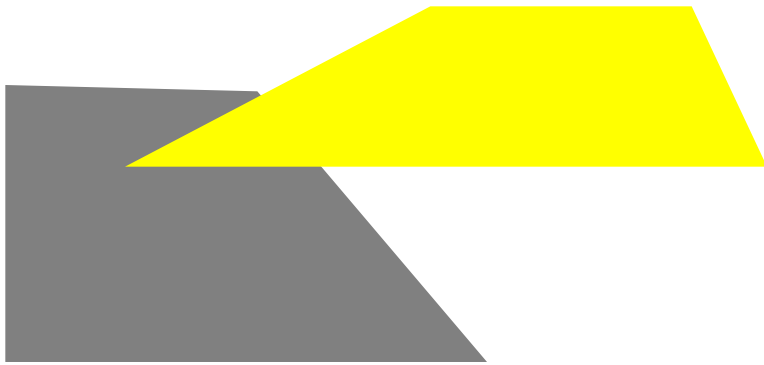


Quadrilaterals

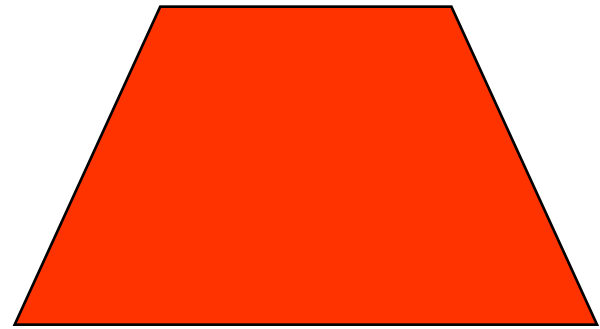


Trapezoid

- has one pair of parallel sides.

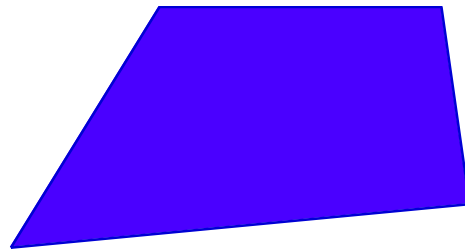


trapezoids



Isosceles trapezoid

(Each of these examples shown has top and bottom sides parallel.)

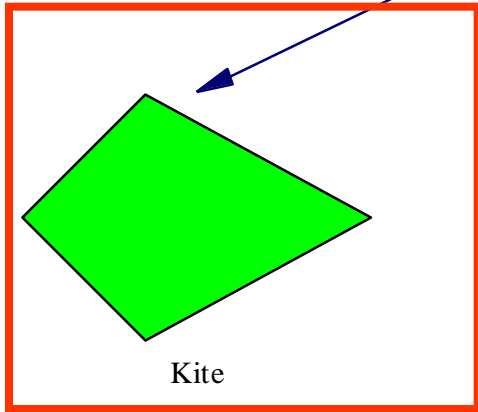


Quadrilaterals

2 pairs adjacent
congruent sides

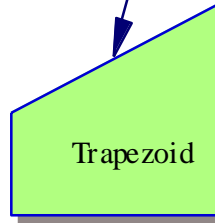
1 pair parallel sides

2 pairs parallel
sides



Kite

An **kite** is a quadrilateral with **NO** parallel sides but **2** pairs of adjacent congruent sides.



Trapezoid

non-parallel sides
are congruent



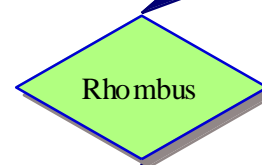
Isosceles
Trapezoid



Parallelogram

4 congruent sides

4 right angles



Rhombus



Rectangle



Square

Example of a Kite

