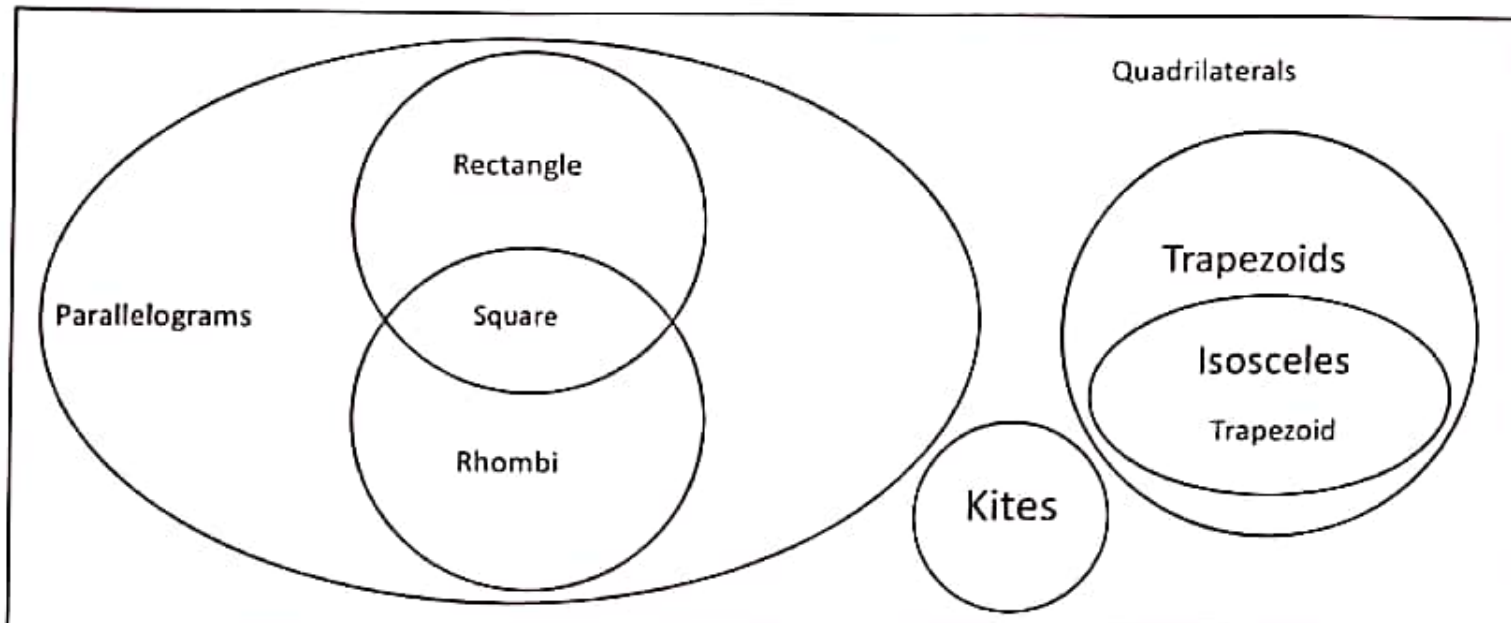


Thurs / Fri

7.6 Quadrilaterals



Characteristics of quadrilaterals:

1. Has 4 sides
2. Interior Angles add to 360°

Parallelograms

- Opposite Sides are parallel
- Opposite Sides Congruent
- Opposite angles congruent
- Consecutive angles are supplementary
- Diagonals Bisect each other

Rectangles

- Type of Parallelogram
- All angles are 90°
- Diagonals are congruent

Squares

- Type of rectangle
- All 4 sides congruent

Rhombus (Rhombi)

- Type of parallelogram
- 4 congruent sides
- diagonals are \perp
- diagonals bisect their angles
- A square is a type of rhombus

Trapezoid

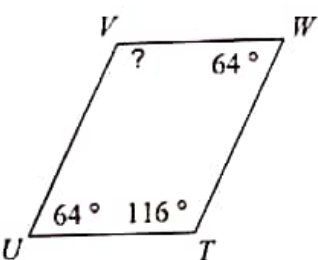
- 1 pair of \parallel sides
- Isosceles trapezoid
 - Non-parallel sides are \cong
 - Base angle pairs \cong
 - Diagonals are \cong

Kite

- Has 2 pairs of congruent adjacent sides

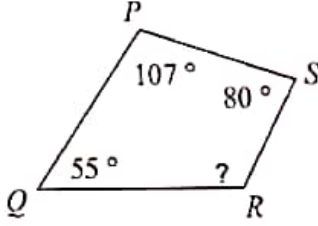
Examples:

9)



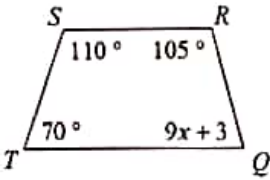
$x + 64 + 64 + 116 = 360$
 $x + 224 = 360$
 $x = 116$

10)



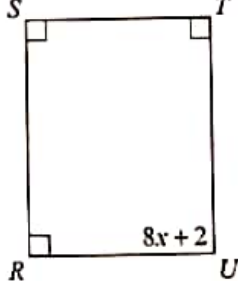
$107 + 80 + 55 + x = 360$
 $242 + x = 360$
 $x = 118$

14)



$110 + 105 + 70 + 9x + 3 = 360$
 $288 + 9x = 360$
 $x = 8$

15)



$8x + 2 = 90$
 $x = 11$