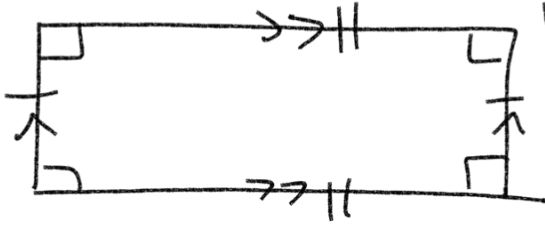


1.) Rectangle

☑ parallelogram

☑ quadrilateral

☑ Rectangle

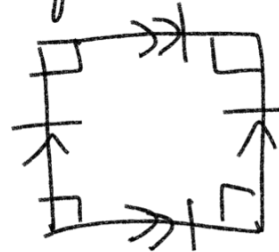


2.) kite



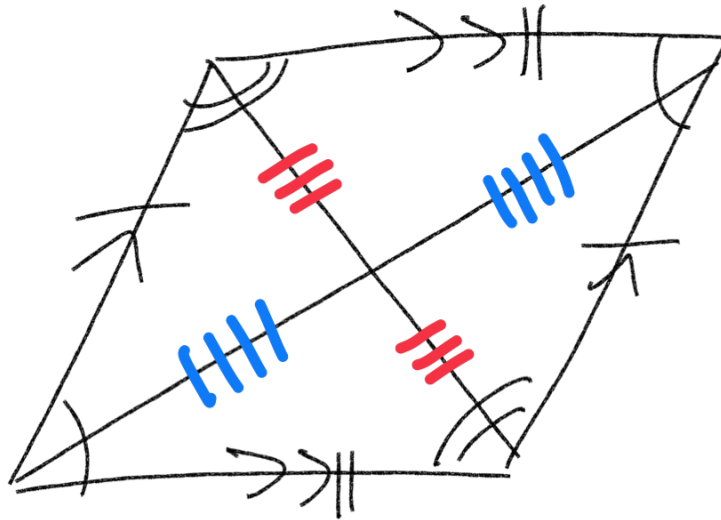
quadrilateral

3.) Square

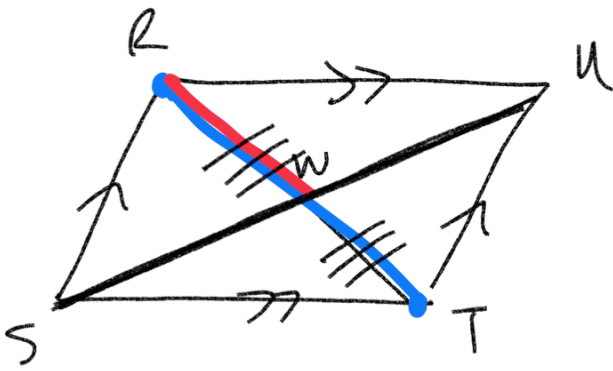


quadrilateral
parallelogram
rhombus
rectangle

Parallelograms



Diagonals
are bisectors



$$\overline{WT} \cong \overline{WR}$$

$$\overline{TR} = 38$$

$$\overline{WR} = 2x + 5$$

$$\overline{TR} = 2 \overline{WR}$$

$$\downarrow \qquad \downarrow$$

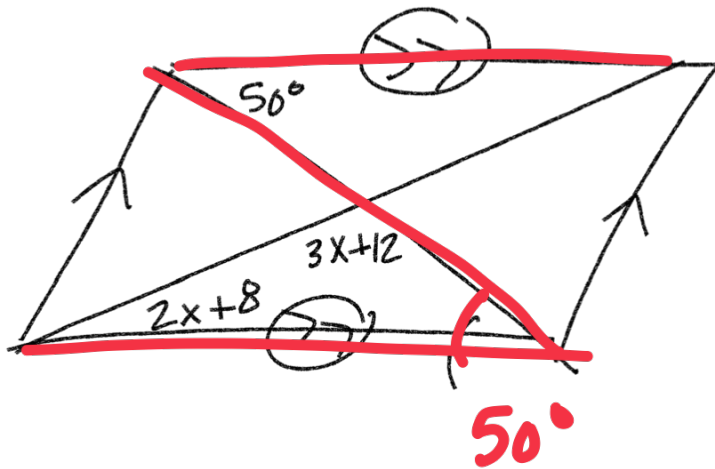
$$38 = 2(2x + 5)$$

$$38 = 4x + 10$$

$$-10 \qquad -10$$

$$\frac{28}{4} = \frac{4x}{4}$$

$$x = 7$$



Alternate
Interior
Angles

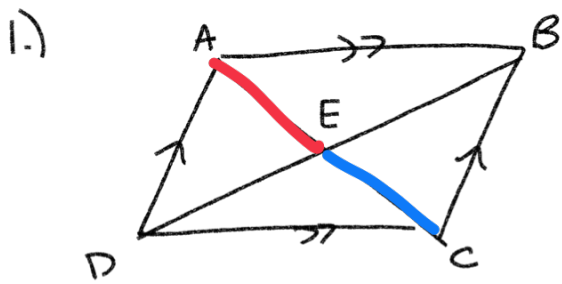
$$50 + 2x + 8 + 3x + 12 = 180$$

$$5x + 70 = 180$$

$$-70 \quad -70$$

$$\frac{5x}{5} = \frac{110}{5}$$

$$x = 22$$



$$\overline{AE} = 3x + 8$$

$$\overline{EC} = 5x + 2$$

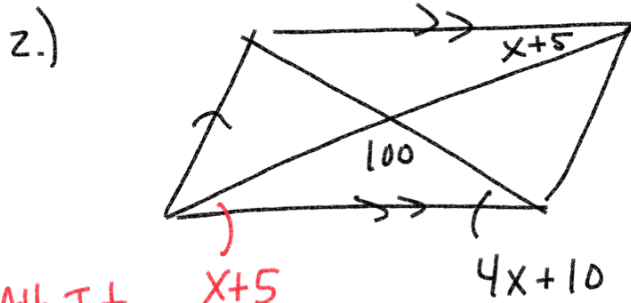
$$\begin{aligned} \overline{AE} &= \overline{EC} \\ \downarrow & \qquad \downarrow \\ 3x + 8 &= 5x + 2 \\ -3x & \quad -3x \end{aligned}$$

$$8 = 2x + 2$$

$$-2 \quad -2$$

$$\frac{6}{2} = \frac{2x}{2}$$

$$\boxed{x = 3}$$



All Int angle

$$x + 5 + 100 + 4x + 10 = 180$$

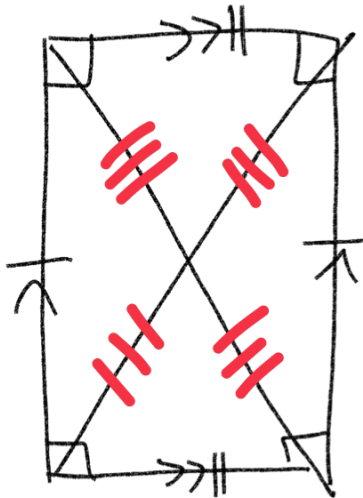
$$5x + 115 = 180$$

$$-115 \quad -115$$

$$\frac{5x}{5} = \frac{65}{5}$$

$$\boxed{x = 13}$$

Rectangle (is also a parallelogram)



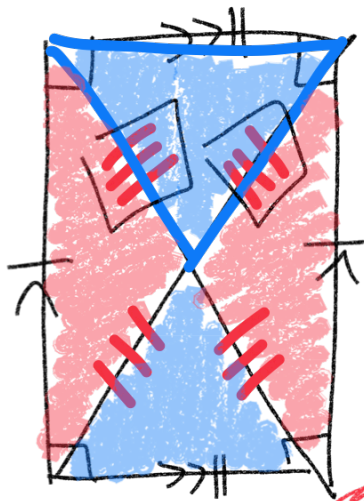
4 congruent angles

Parallelogram

Diagonals bisect each other

Rectangle (Difference)

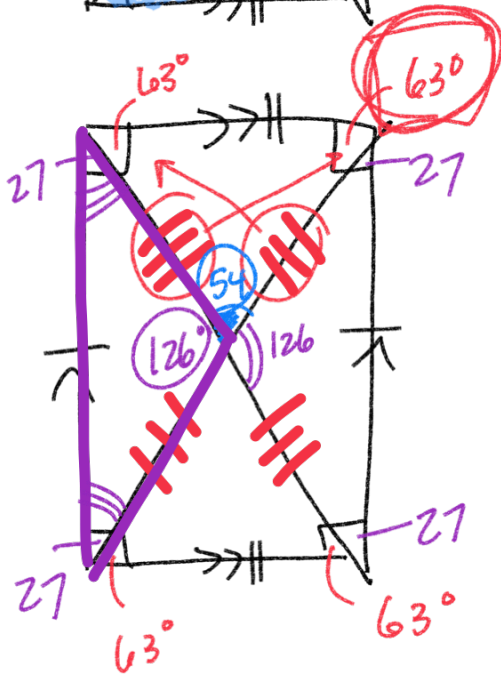
All diagonals are congruent



Rectangle

Triangle with two equal sides - isosceles

2 pairs of congruent isosceles triangles



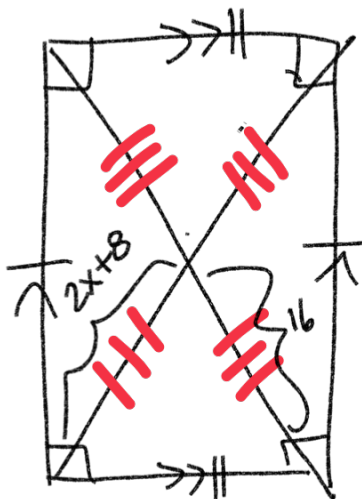
$$63 + 63 + \underline{\quad} = 180$$

$$126 + \underline{\quad} = 180$$

$$-126 \qquad -126$$

$$\underline{\quad} = 54$$

$$\begin{array}{r} 180 \\ -126 \\ \hline 54 \\ \hline \frac{54}{2} = 27 \end{array}$$



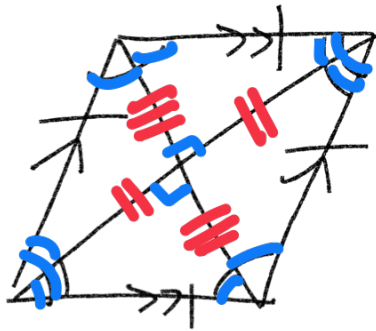
$$2x + 8 = 16$$

Rhombus (is also a parallelogram)



Parallelogram

Diagonals bisect each other

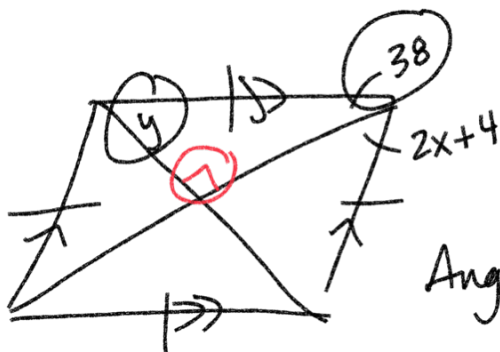


4 congruent sides

Rhombus

Diagonals are perpendicular bisectors

Diagonals are also angle bisectors



$x =$

$y =$

Angle bisector

$$2x + 4 = 38$$

$$-4 \quad -4$$

$$\frac{2x}{2} = \frac{34}{2}$$

$x = 17$

$$y + 90 + 38 = 180$$

$$y + 128 = 180$$

$$-128 \quad -128$$

$y = 52$



Parallelogram

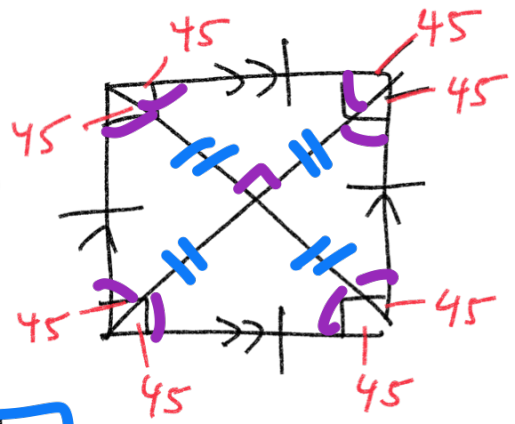
Diagonals are bisectors

Rectangle

Diagonals are congruent

Rhombus

Diagonals are perpendicular bisectors
are angle bisectors



4 congruent isosceles right triangles