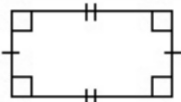
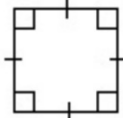
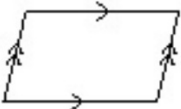

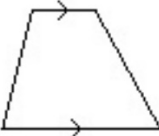



- Turn in Quiz corrections in the yellow basket on my front table.
- New Seating Chart
- Lesson 7.4

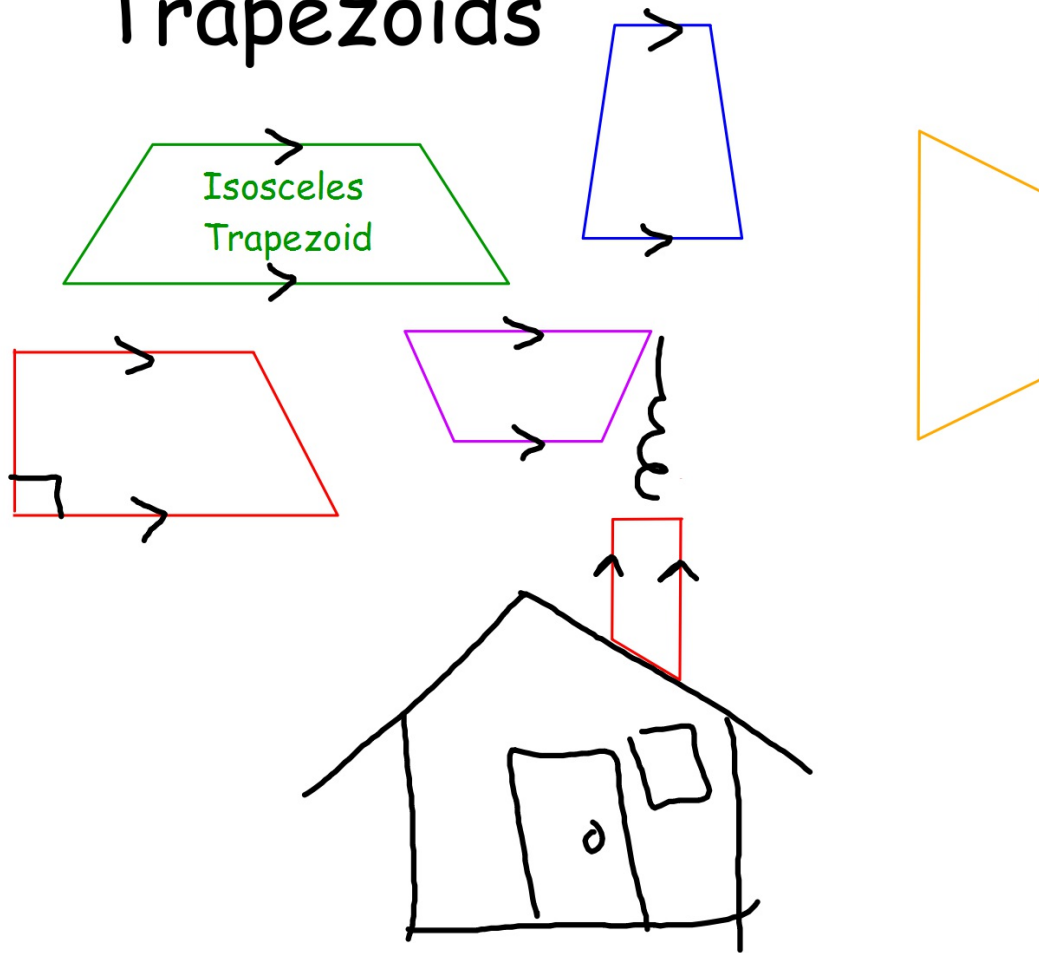
7.4 Quadrilaterals

Learning Targets

- Classify Quadrilaterals
- Find Angle Measures
- Construct a Quadrilateral

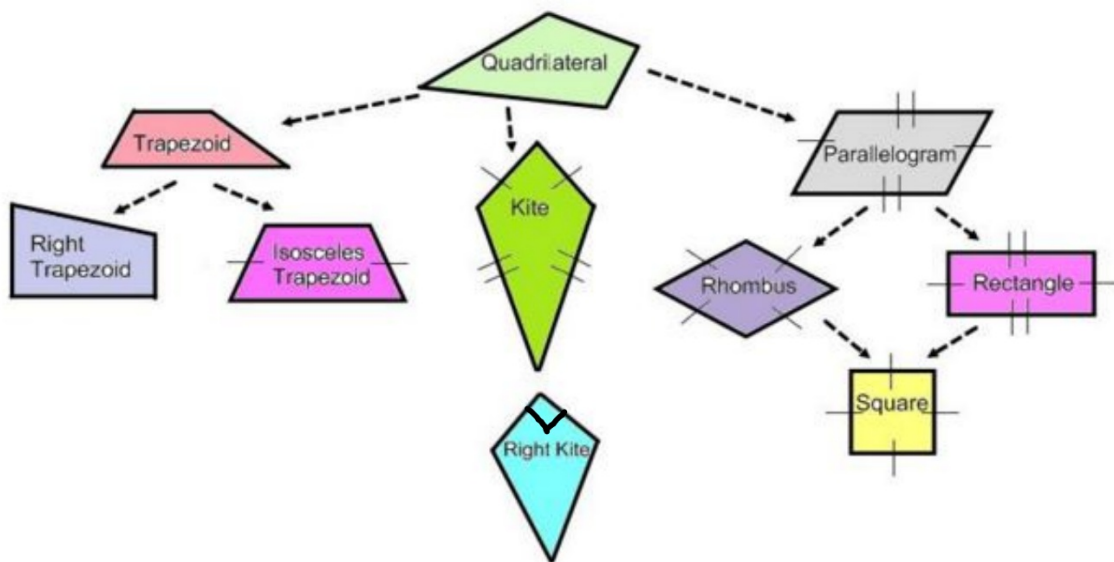
<i>Quadrilateral</i>	<i>Properties</i>	
<i>Rectangle</i>	4 right angles and opposite sides equal	
<i>Square</i>	4 right angles and 4 equal sides	
<i>Parallelogram</i>	Two pairs of parallel sides and opposite sides equal	
<i>Rhombus</i>	Parallelogram with 4 equal sides	
<i>Trapezoid</i>	Two sides are parallel	
<i>Kite</i>	Two pairs of adjacent sides of the same length	

Trapezoids



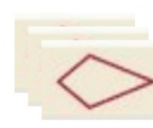
4 Sides

The Quadrilateral Family Tree



Let's Play - Match that Quadrilateral!

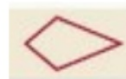
Quadrilateral



Parallelogram

Kite

Trapezoid



Rectangle

Rhombus

Isosceles Trapezoid

Square

Classify the quadrilateral.

a.

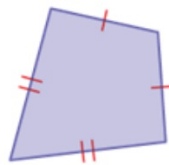


The quadrilateral has four congruent sides and four right angles.

••• So, the quadrilateral is a square.



b.



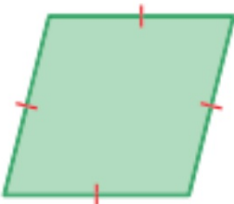
The quadrilateral has two pairs of congruent adjacent sides and opposite sides that are not congruent.

••• So, the quadrilateral is a kite.



Classify the quadrilateral.

1.



rhombus



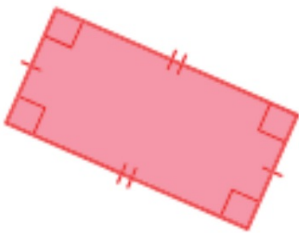
2.



trapezoid



3.



rectangle

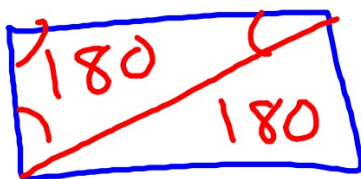


Key Idea

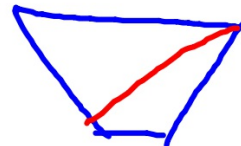
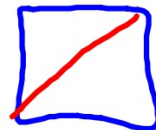
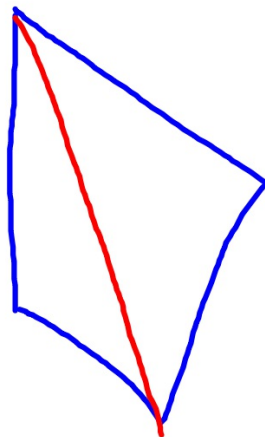
Sum of the Angle Measures of a Quadrilateral

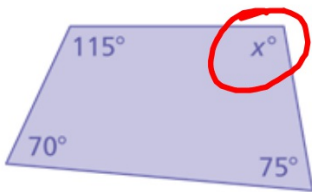
Words The sum of the angle measures of a quadrilateral is 360° .

Algebra $w + x + y + z = 360$



360°





Find the value of x .

145

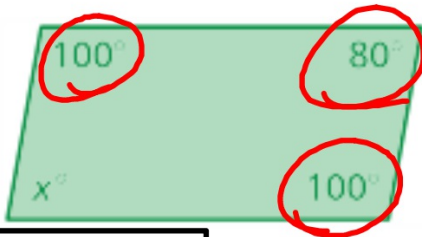
$$115 + 70 + 75 + x = 360$$

$$260 + x = 360$$

$$x = 100$$

Find the value of x .

4.

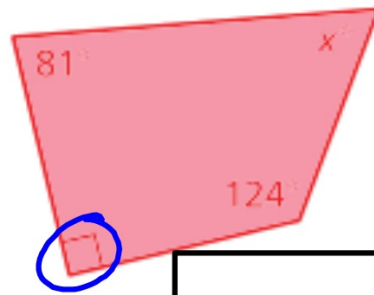


$$100 + 80 + 100 + x = 360$$

$$280 + x = 360$$

$$x = 80$$

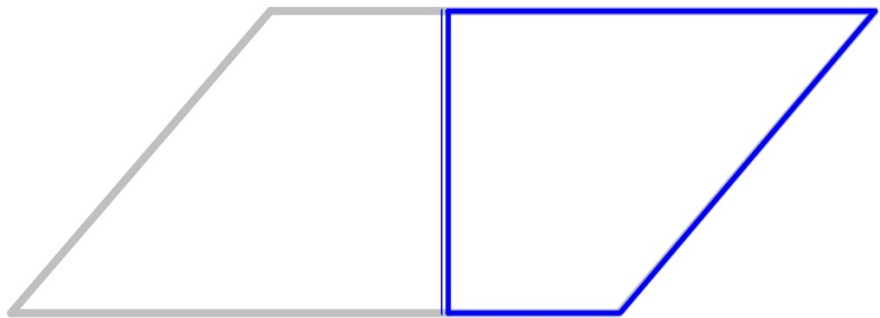
5.



$$360 = 90 + 81 + 124 + x$$

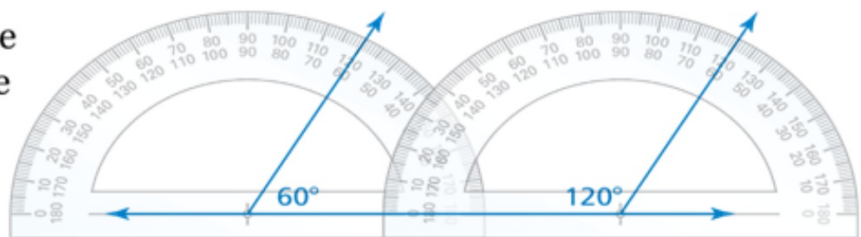
$$360 = 295 + x$$

$$x = 65$$

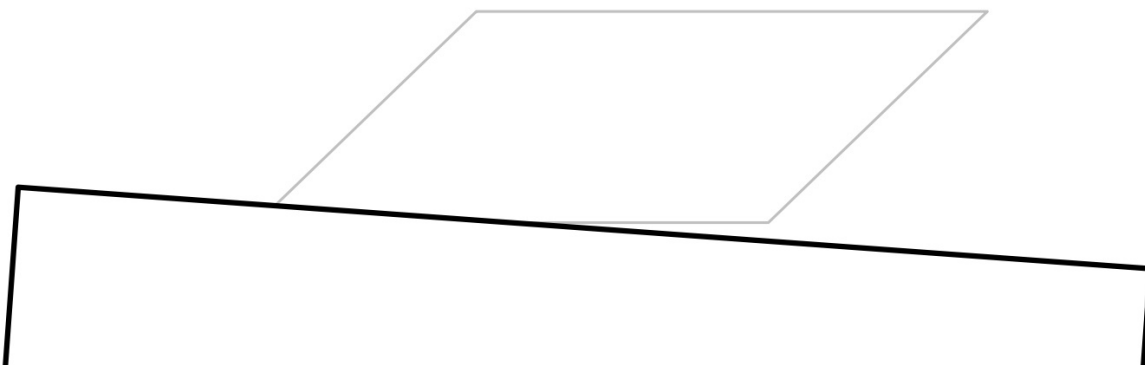
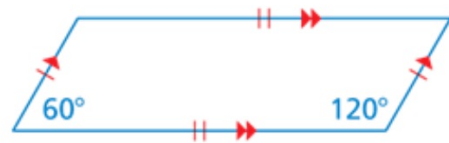


Draw a parallelogram with a 60° angle and a 120° angle.

Step 2: Draw a 60° angle and a 120° angle that each have one side on the line.



Step 3: Draw the remaining side. Make sure that both pairs of opposite sides are parallel and congruent.



Homework

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#1-6^{ALL}, 7-13 odd

14-24 even