REVIEW: Quadrilaterals

Name _____

Key Concept and Vocabulary

Quadrilateral	Diagram
A *trapezoid* has exactly 1 pair of parallel sides.	
A *parallelogram* has 2 pairs of parallel sides	
A *rectangle* is a parallelogram with 4 right angles.	
A *rhombus* is a parallelogram with 4 congruent sides.	Classify.
A *square* is a parallelogram with 4 right angles and 4 congruent sides.	

Visual Model

Quadrilaterals

trapezoids

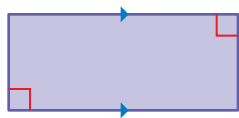parallelograms

rectangles

squares
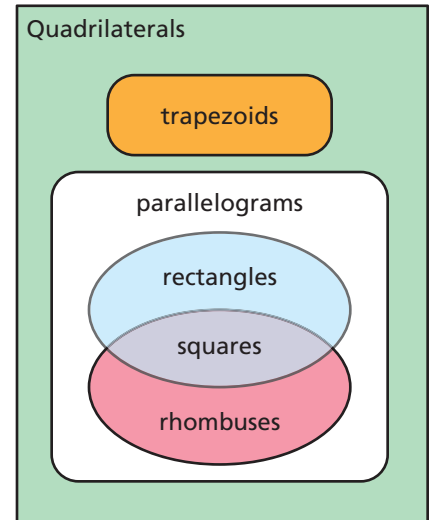
rhombuses

Skill Example

1. The quadrilateral has 4 right angles. The 4 sides are not congruent. The quadrilateral is a rectangle.
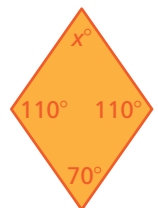
Application Example

2. The sum of the angle measures of a quadrilateral is 360°. Find the value of x in the rhombus.
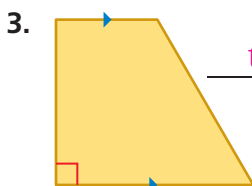
$x + 110 + 70 + 110 = 360$
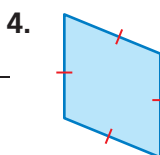
$x + 290 = 360$

$x = 70$

The value of x is 70.

$x°$ $110°$ $110°$ $70°$

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Check your answers at BigIdeasMath.com.

Classify the quadrilateral.

3. <u>trapezoid</u>
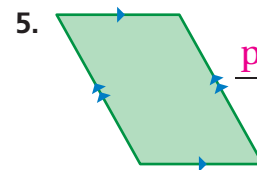
4. <u>rhombus</u>

5. <u>parallelogram</u>

6. ANGLE MEASURE Find the value of x in the quadrilateral. <u>75</u>

7. RHOMBUS A quadrilateral has 4 right angles. Can the quadrilateral be classified as a rhombus? Explain.
<u>no; A rhombus has 4 congruent sides and you do</u>
<u>not know if the quadrilateral has 4 congruent sides.</u>

$x°$ $115°$ $80°$