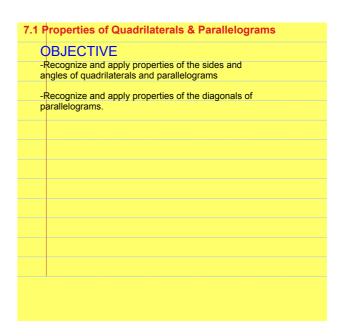
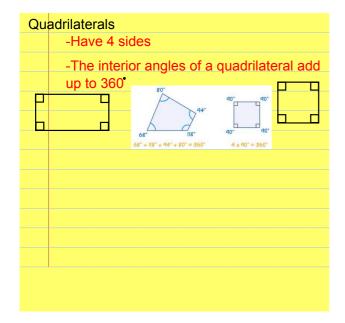
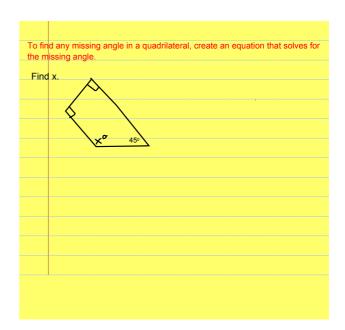
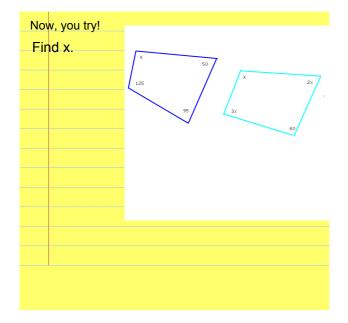
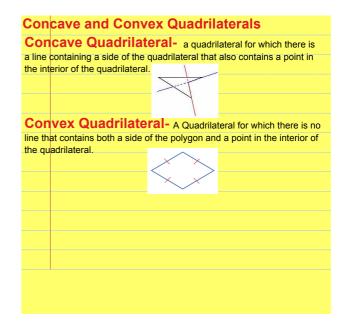
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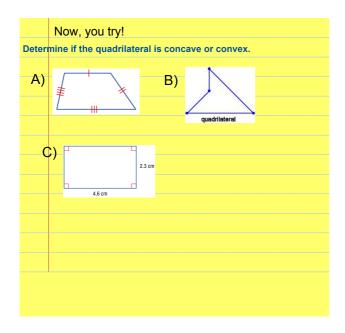


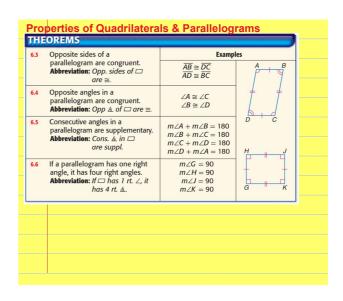


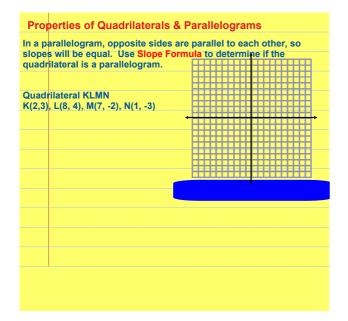


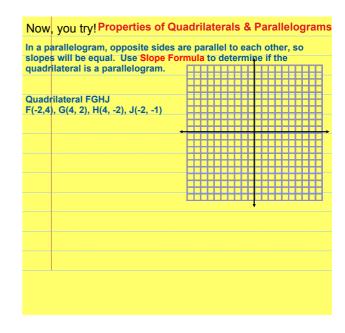


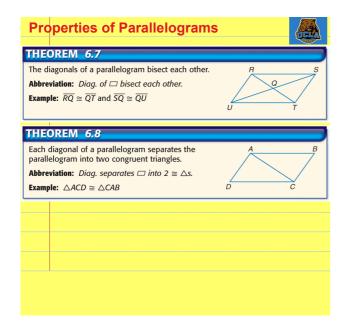


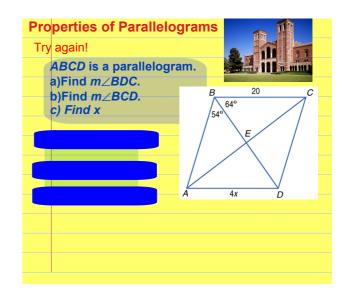


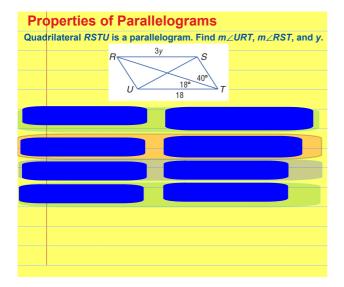


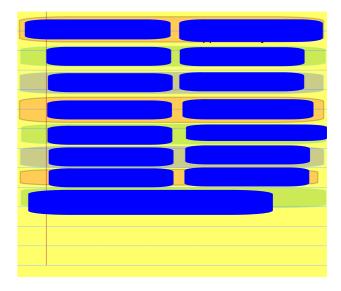


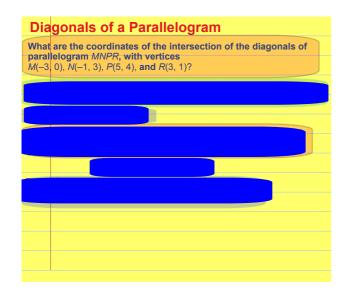


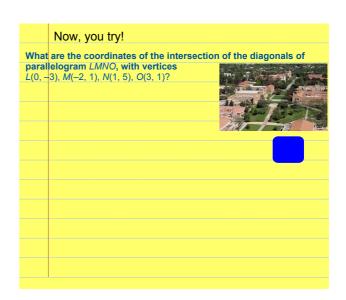


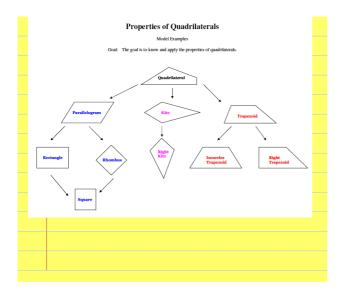


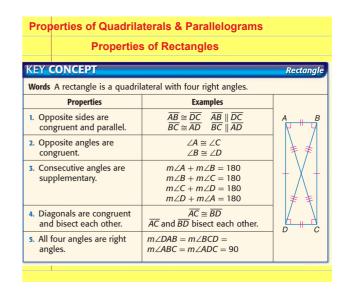


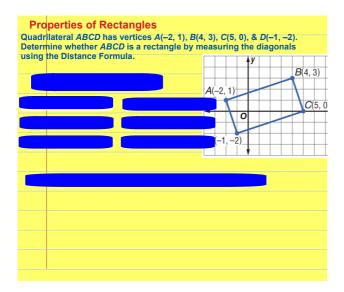


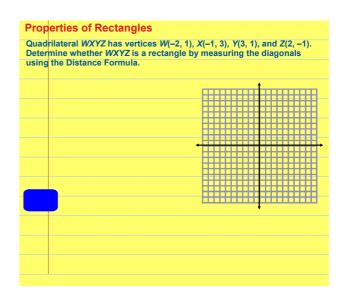












A rhombus is a quadrilateral with four congruent sides. All rhombuses are parallelograms



MDAL

If DA = 4x and AL = 5x - 3, find DL. If DA = 4x and AL = 5x - 3, find AD.

All of the properties of a parallelogram apply to a rhombus plus the sides are congruent and the diagonals of a rhombus are perpendicular to each other.

• A square is a quadrilateral with four right angles and four congruent sides. <u>All squares are rectangles and rhombuses.</u>



All of the properties of parallelograms, rectangles and rhombii apply to squares.

COORDINATE GEOMETRY Given each set of vertices, determine whether  $\Box QRST$  is a rhombus, a rectangle, or a square. List all that apply. Explain.

$$Q(-6,\,-1),\,R(4,\,-6),\,S(2,\,5),\,T(-8,\,10)$$

- Draw a square. Draw in the diagonals of the square. Make at least one conjecture about the diagonals of the square.
- 2. A quadrilateral has four congruent sides. What type of quadrilateral must it be? What type of quadrilateral could it be?
- 3. Solve for x (picture not drawn to scale).

