Quadrilaterals - Squares and Rhombi

Rhombus:

A quadrilateral with four congruent sides. (Also could be defined as a parallelogram with four congruent sides.)



<u>Theorem 6-13.14:</u> A quadrilateral is a rhombus IFF its diagonals are perpendicular.



<u>Theorem 6-15</u>: Each diagonal of a rhombus bisects a pair of opposite angles.



<u>Square</u>:

(a rectangular rhombus; a rhombicular rectangle.) A quadrilateral that is both a rhombus and a rectangle.



Notes Section 6.5

Name

Name all the quadrilaterals – parallelogram, rectangle, rhombus, or square – that have each property.

#1) The opposite sides are parallel.

All

#2) The opposite sides are congruent.

All

#3) All sides are congruent.

Rhombus SquARE

#4) It is equiangular and equilateral.

Square

Userhombus BEAC with BA = 10 to determine whether each statement is true or false. Justify your answer.

#5) CE = 10



#6) $\overline{CE} \perp \overline{AB}$



are perpendicular.

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