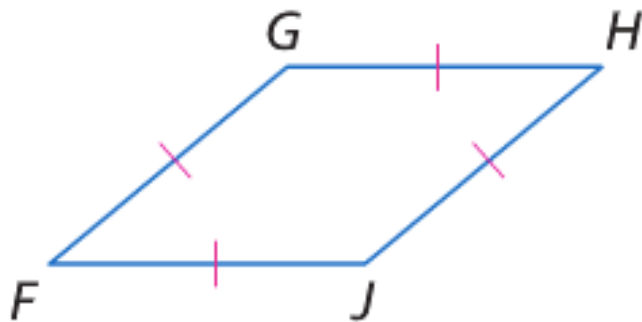


6-5

Rhombi

Rhombus

A Rhombus is a Parallelogram with 4 congruent sides



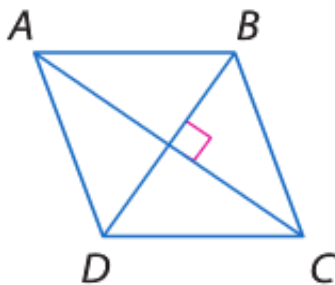
Since a Rhombus is a Parallelogram.....

ALL Parallelogram rules learned in Section 6.2
APPLY!

- * *Both pairs of opposite sides are parallel*
- * *Both pairs of opposite sides are congruent*
- * *Both pairs of opposite angles are congruent*
- * *Consecutive Angles are Supplementary*
- * *Diagonals Bisect each other*

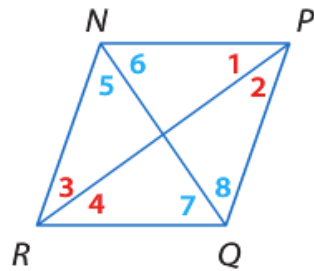
Theorem 6.15

If a Parallelogram is a Rhombus, then it's diagonals form a right angle.



Theorem 6.16

If a Parallelogram is a Rhombus, then it's diagonals are angle bisectors.



1, 2, 3, 4 are congruent

5, 6, 7, 8 are congruent

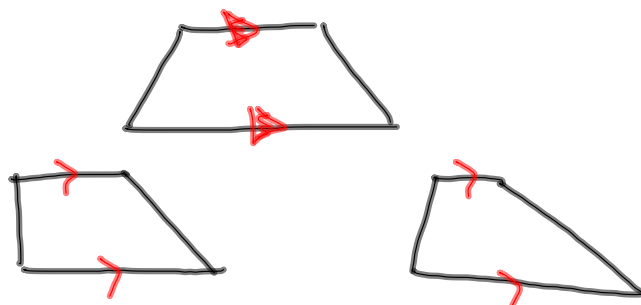
Square

A Square is a PARALLELOGRAM,
RECTANGLE and RHOMBUS!!!

ALL RULES FROM EACH PREVIOUS
SHAPE APPLY!

Trapezoid

* One pair of opposite sides is parallel.

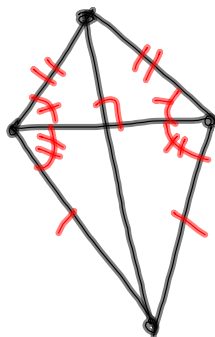


Isosceles Trapezoid

- * Non-parallel sides are congruent.
- * Base angles are congruent.
- * Diagonals are congruent.



KITE



ALGEBRA Quadrilateral $ABCD$ is a rhombus. Find each value or measure.

1. If $m\angle BCD = 64$, find $m\angle BAC$.
2. If $AB = 2x + 3$ and $BC = x + 7$, find CD .

