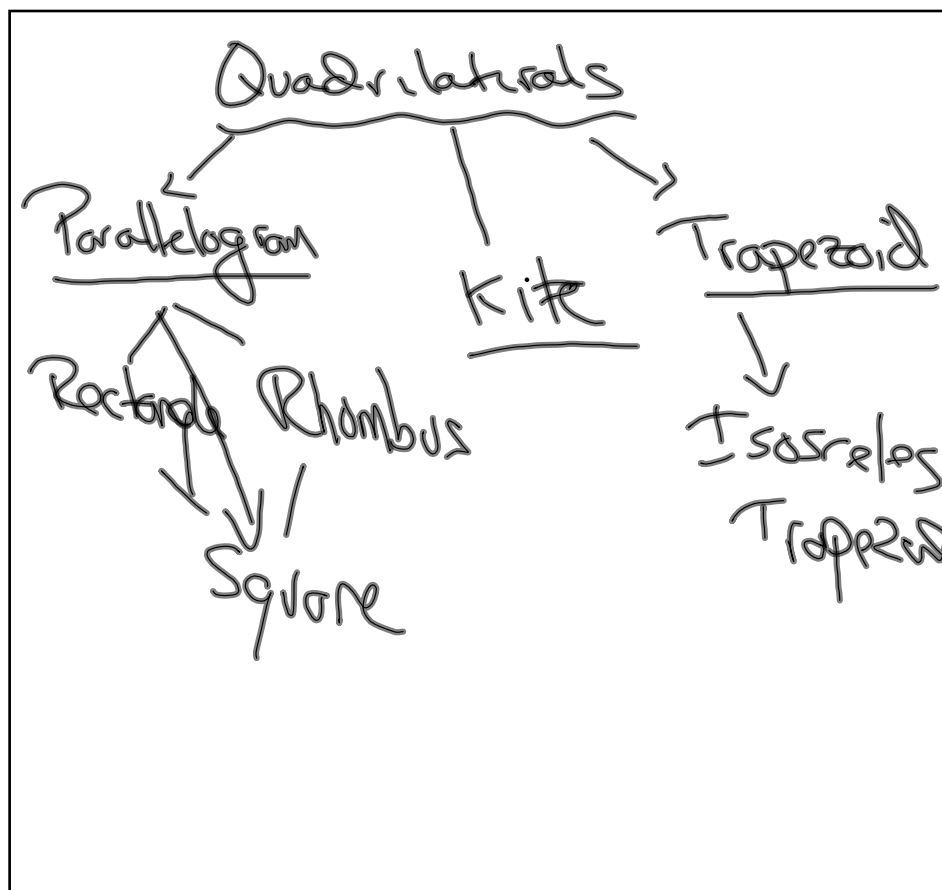


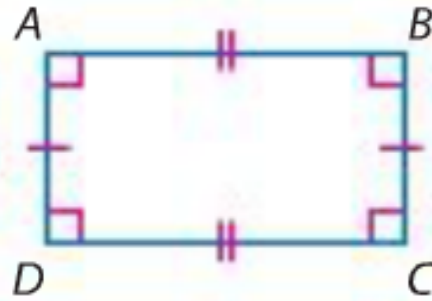
6-4

Rectangles



Rectangles

A rectangle is a parallelogram with 4 right angles.



Rectangle $ABCD$

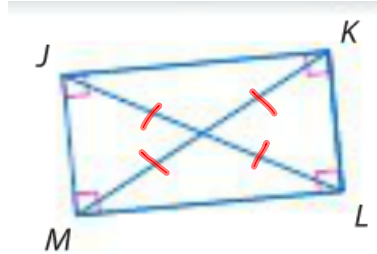
Since a Rectangle is a Parallelogram.....

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 6.13

If a Parallelogram is a Rectangle, then it's diagonals are congruent.



$$\overline{JL} \cong \overline{MK}.$$

ALGEBRA Quadrilateral $DEFG$ is a rectangle.

5. If $FD = 3x - 7$ and $EG = x + 5$, find EG .
6. If $m\angle EFD = 2x - 3$ and $m\angle DFG = x + 12$, find $m\angle EFD$.

