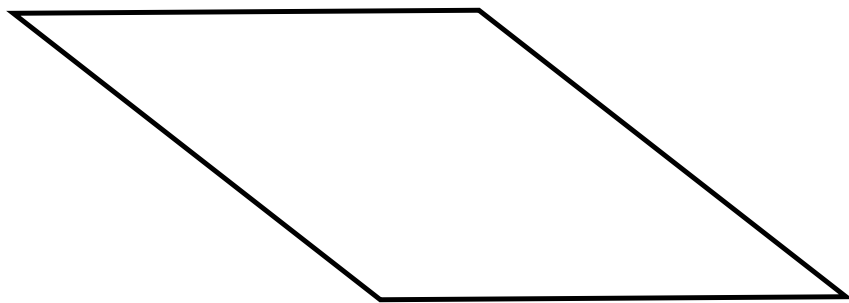
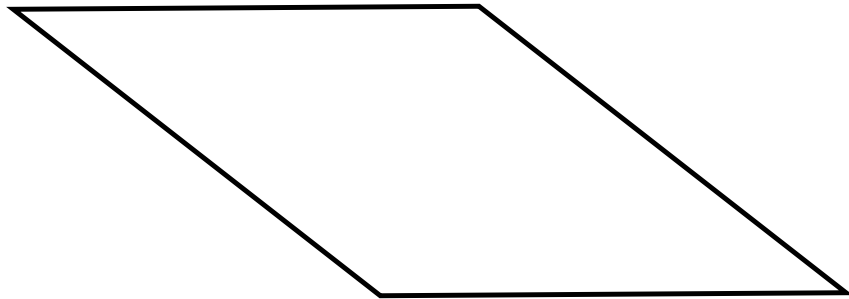


rhombus

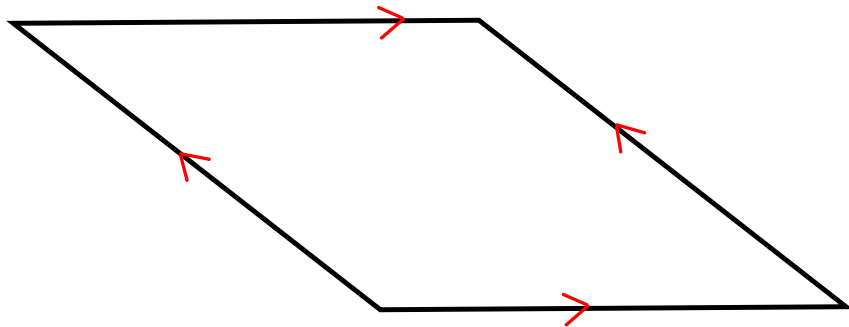


rhombus



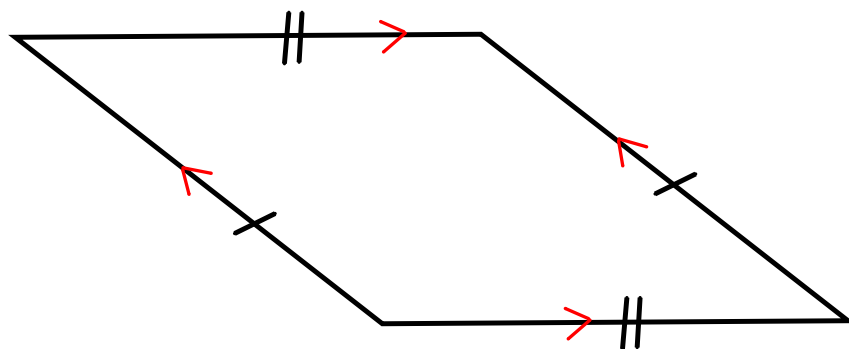
Since a rhombus is a special type of parallelogram, all properties of parallelograms apply to rhombi.

rhombus



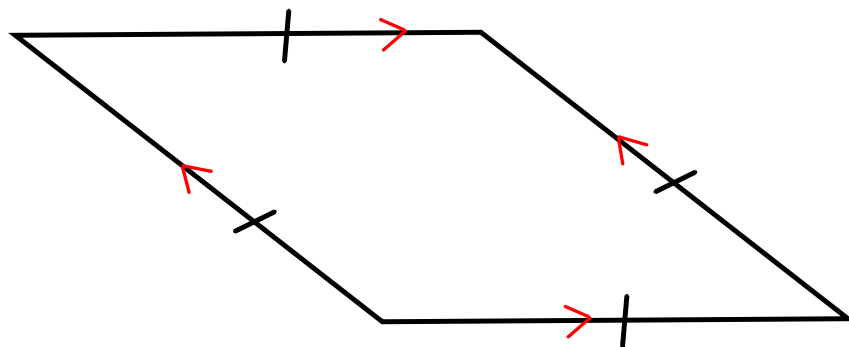
Opposite sides are parallel.

rhombus



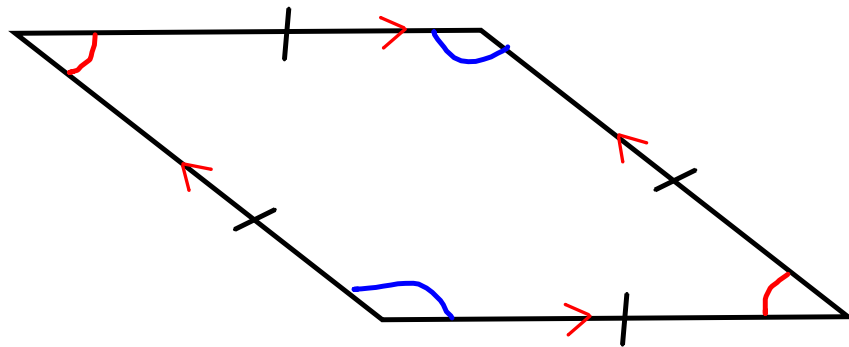
Opposites sides are congruent.

rhombus



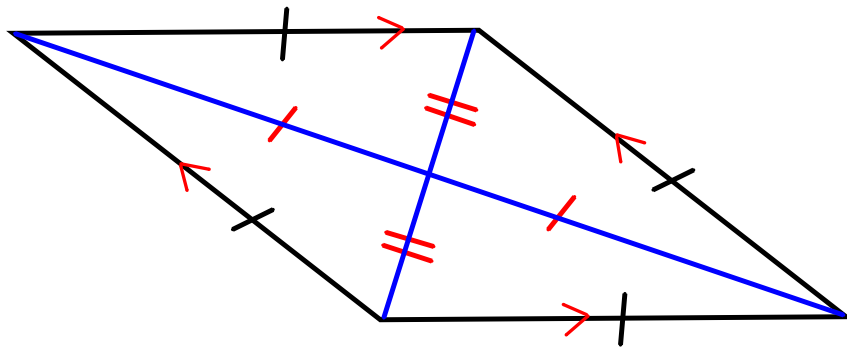
All sides are congruent.

rhombus



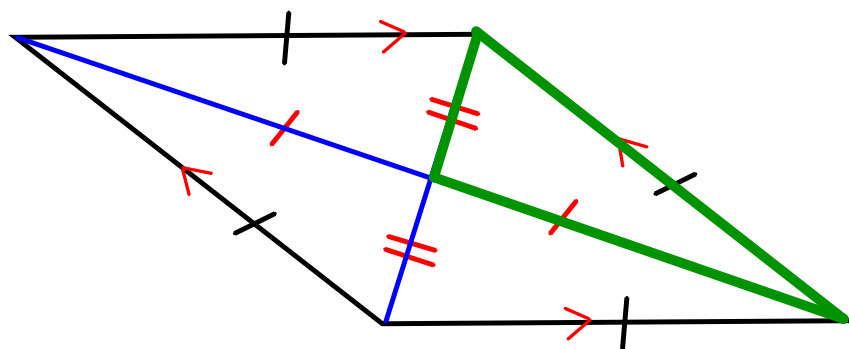
Opposite angles are congruent.  
Any pair of consecutive angles are  
supplementary.

rhombus



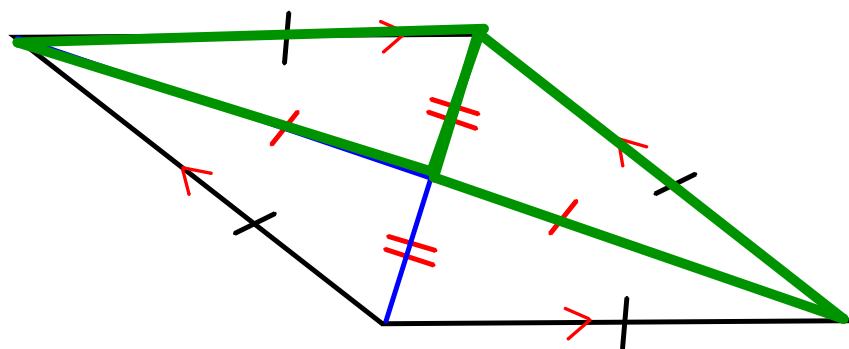
Diagonals bisect each other.

rhombus

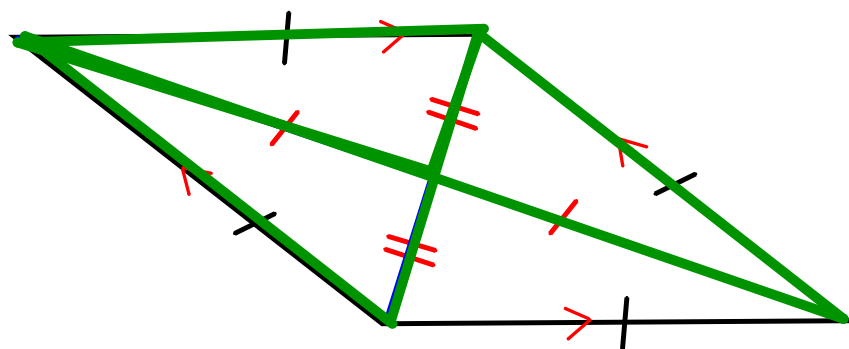




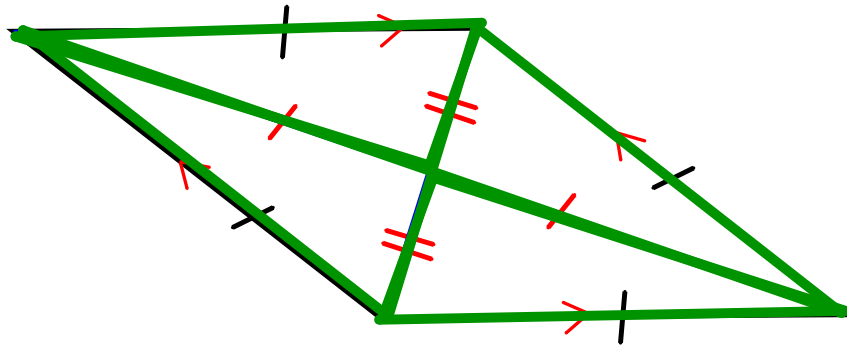
rhombus



rhombus

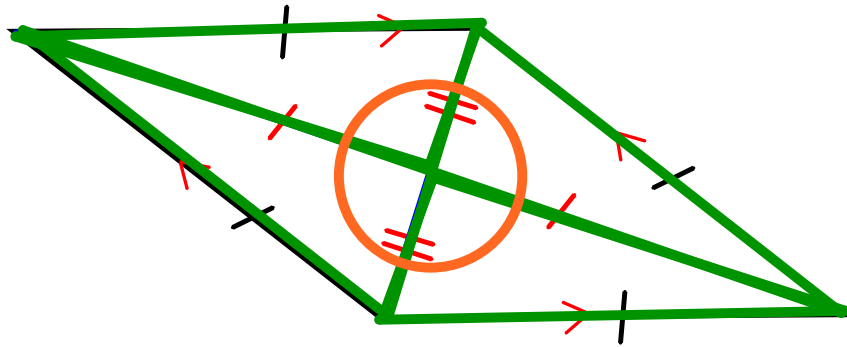


rhombus



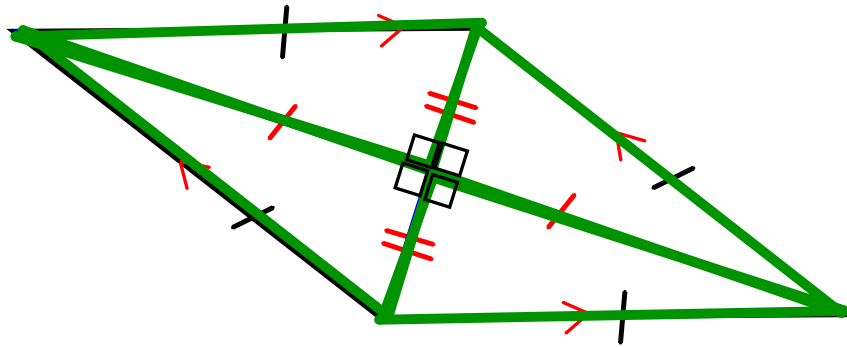
The four green triangles are  
congruent by SSS.

rhombus



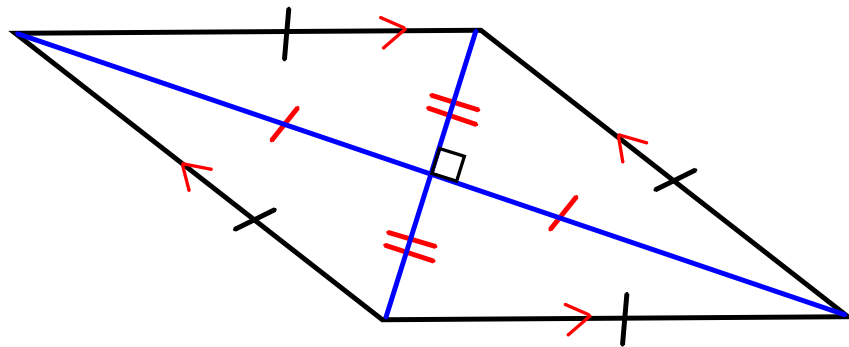
The four angles created by the intersection of the diagonals are congruent by CPCTC.

rhombus



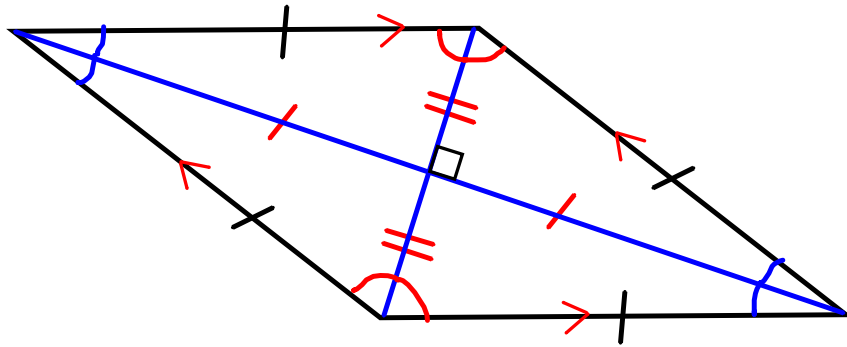
The four angles are right angles  
because any pair form a linear pair  
of congruent angles.

rhombus



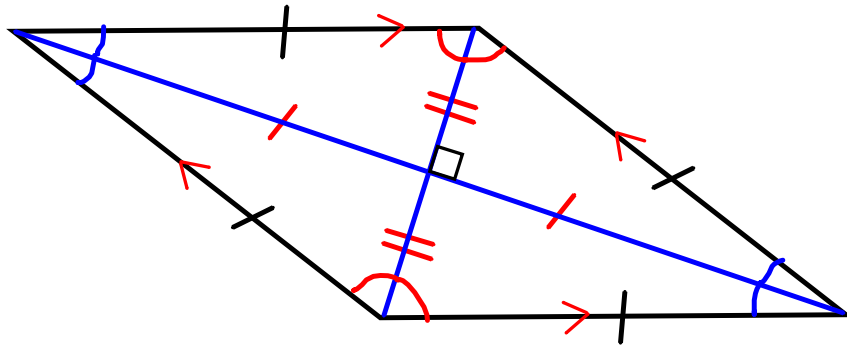
The diagonals of a rhombus are  
perpendicular bisectors of each  
other.

rhombus



The angles marked in red are congruent by CPCTC, as are the angles marked in blue.

rhombus



The diagonals, then, bisect the  
angles by definition of angle  
bisector.



## Properties of rhombi (rhombuses)

1. All properties of parallelograms apply to rhombi.
2. All sides are congruent.
3. Diagonals are perpendicular bisectors of each other.
4. Diagonals bisect the angles.
5. Diagonals divide a rhombus into four congruent, right triangles.