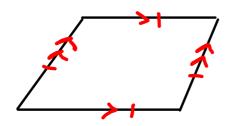
Proofs Quiz

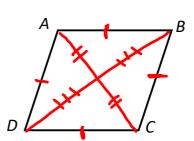
	Parallelogram	Rhombus	Rectangle	Square
Opposite sides parallel	₩	*	₩	₩
Opposite sides congruent	₩	₩	₩	€
Opposite angles congruent	₩	₩	₩	₩
All sides congruent		₩		₩
Diagonals form 2 congruent triangles	₩	*	₩	₩
Diagonals are congruent			₩	₩
Diagonals are perpendicular		₩		
Diagonals bisect each other	₩	₩	₩	₩
Diagonals bisect opposite angles		₩		₩
All angles are right angles			₩	₩
Any pair of consecutive angles are supplementary	₩	₩	₩	₩

A Rhombus is a parallelogram with four congruent sides



Given: ABCD is a rhombus

Prove: $\overline{AC} \perp \overline{BD}$

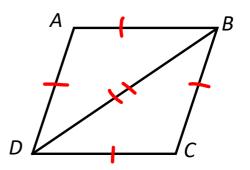


Statements	Reasons
1. ABCD is a rhombus 2. AB = BC = CD = DA	2. Def. of chombus
3. Draw AC and BD 4. BD and AC bisect each other	3. Any 2 pts form a line. 4. Diagonals of //-ogram bisect each other.
5. D is on the 1 bis.	5. PBT
6. AC 1 BD	6. Def. of 1.

Given: ABCD is a rhombus

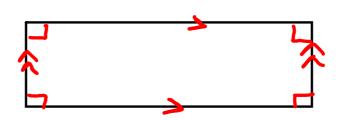
Prove: $\angle ADB \cong \angle CDB$ and

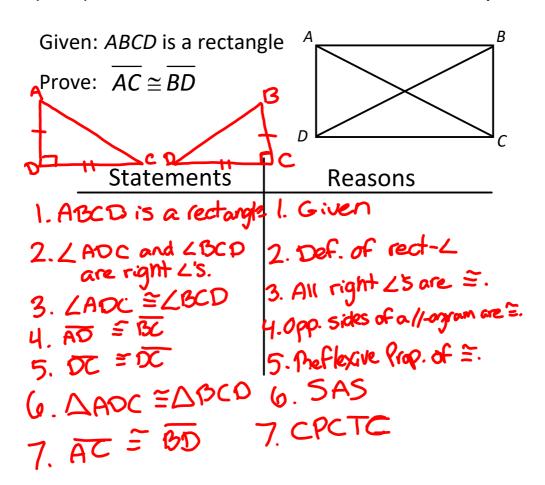
 $\angle ABD \cong \angle CBD$



Statements	Reasons
1. ABCD is a rhombus	1. Given
O DE SEC SED S DA	2. Def. of rhombus
3. BD = BD	3. Reflexive Pap. of =.
4. DABD = ACBD	4. <i>55</i> 5
5. LADB = LCOB	5. CPCTC
/ABD=LCBD	

A Rectangle is a parallelogram with four right angles





A Square is a parallelogram with four congruent sides and four right angles

A Kite is a quadrilateral with two pairs of consecutive congruent sides (but the pairs are not congruent to each other)

A trapezoid is...



An Isosceles Trapezoid is a quadrilateral in which one (and only one) pair of opposite sides are parallel, and the other pair of sides is congruent.