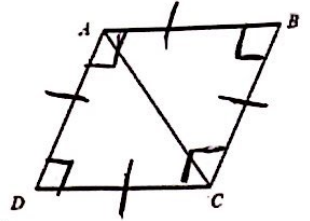


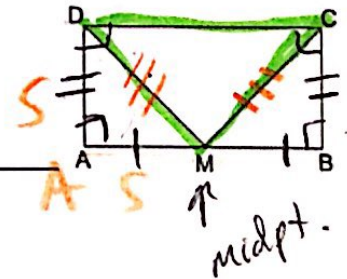
Picture does not always look accurate!

EX3. Given $\square ABCD$ is a Parallelogram.
 $\angle ADC$ is a Right Angle
 $AD \cong DC$
 Prove $\square ABCD$ is a Square



Statement	Reason
1. Parallelogram $ABCD$	1. Given
2. $\angle ADC$ is \textcircled{R}	2. Given
3. $AD \cong DC$	3. Given
4. $\angle ABC \cong \angle ADC \cong \angle DAB \cong \angle BCD$	4. If 1 angle is \textcircled{R} all \angle s are \textcircled{R}
4. $AD \cong BC$	4. Opp sides \cong prop.
5. $AB \cong DC$	5. Opp sides \cong prop.
6. $\square ABCD$ is a Square	6. 4 right angles & 4 congruent sides

EX4. Given $\square ABCD$ is a Rectangle
 $AM \cong MB$
 Prove $\triangle DMC$ is an Isosceles Triangle



Statement	Reason
1. Rectangle $ABCD$	1. Given
2. $AM \cong MB$	2. Given
3. $AD \cong CB$	3. Opp sides \cong prop
4. $\angle D = \angle A = \angle C = \angle B = 90^\circ$	4. Rectangles have 4 right angles
4. $\triangle DAM \cong \triangle CBM$	4. SAS
5. $DM \cong MC$	5. CPCTC
6. $\triangle DMC$ is an Isosceles Triangle.	6. An Isosceles have 2 congruent sides.

CPCTC - Corresponding Parts of Congruent Triangles are Congruent.