Aug 26 2021

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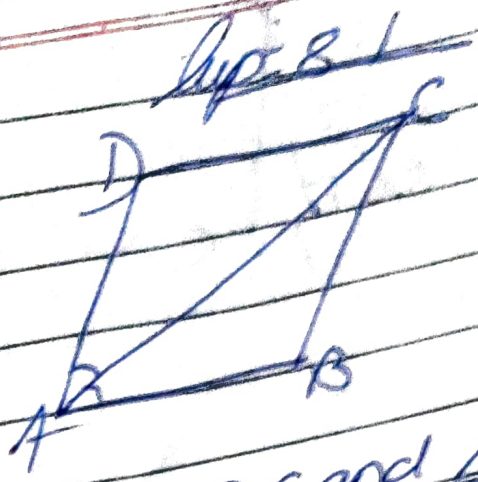

In $\triangle ADC$ and $\triangle CBA$

$AD = CB$

$DC = BA$

$AC = CA$

$\triangle ADC = \triangle CBA$

Thus,

$\angle A + \angle D = \angle C + B$

$\angle CAB = \angle CAD$

$\angle ACD = \angle CBA$

AC bisects $\angle BCD$

$\angle ACD = \angle CAD$

$AD = CD$

$AB = BC = CD = DA$

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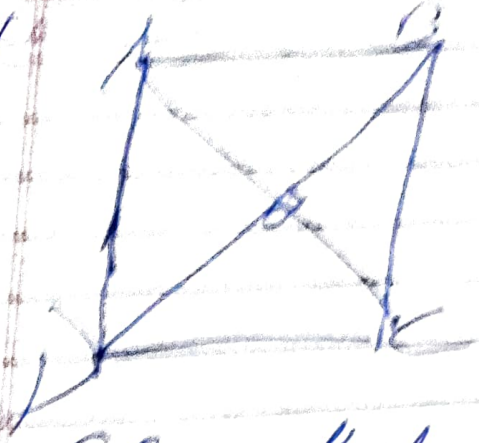

Given that

ABCD is a Rhombus

AC and BD are diagonals

proof - AD = CD

$\angle DAC = \angle DCA$

AB || CD

$\angle DAC = \angle BCA$

$\angle DCA = \angle BCA$

AC bisects $\angle C$

Similarly

we can prove that the di a