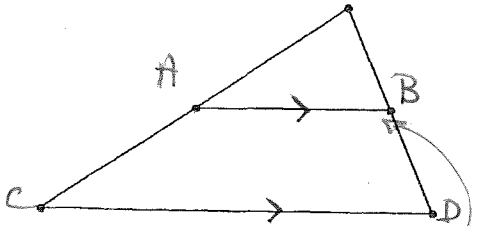
Geometry Review

Date:

Midsegment Conjectures

Midsegment of a triangle

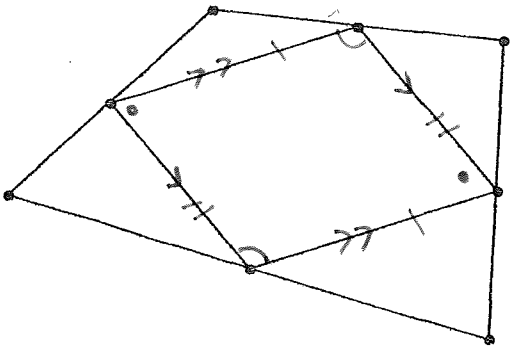


½ length of the base

$AB = \frac{1}{2}CD$

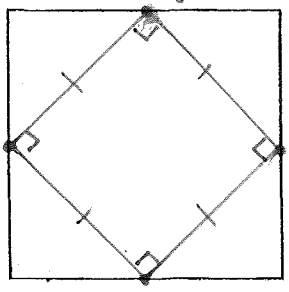
Midsegment of a quadrilateral

form a ||gram



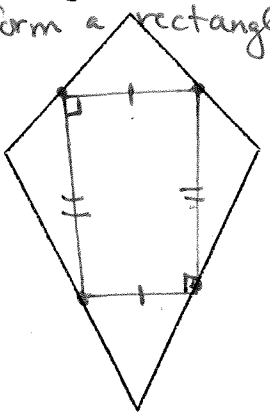
Midsegment of a square

form a square



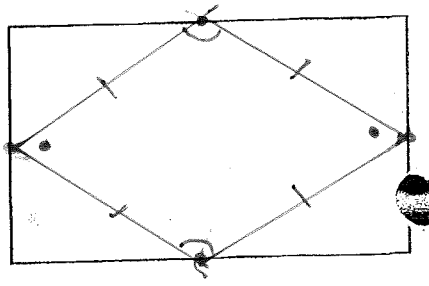
Midsegment of a kite

form a rectangle



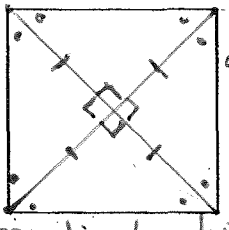
Midsegment of a rectangle

form a rhombus



Diagonal Conjectures

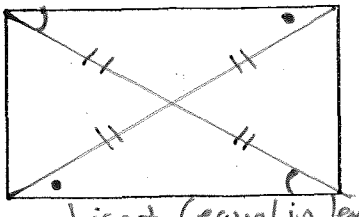
Diagonals of a square



angle bisectors too!

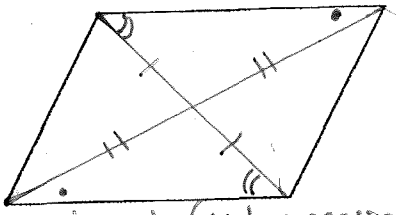
perpendicular bisectors (equal in length)

Diagonals of a rectangle



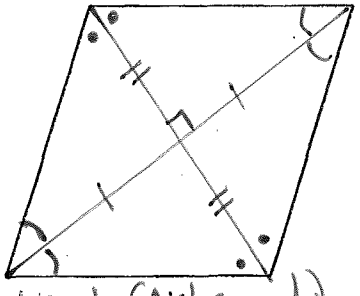
bisect (equal in length)

Diagonals of a parallelogram



bisect (Not necessarily equal)

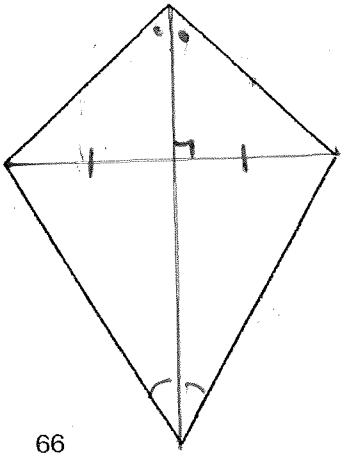
Diagonals of a rhombus



bisect (Not equal)

perpendicular bisectors
angle bisectors

Diagonals of a kite



- perpendicular
- bised the shorter diagonal
- bised angles at end of longer diagonal.

Geometry Review

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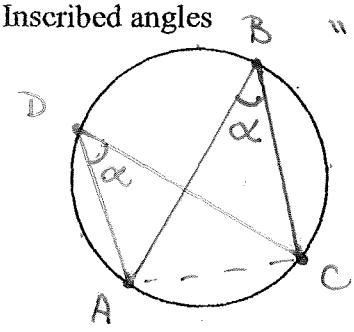
Circle Geometry

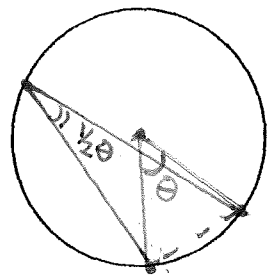
Inscribed angles



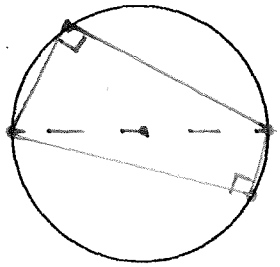
"subtended by arc/chord AC"

equal

Inscribed & Sector angles

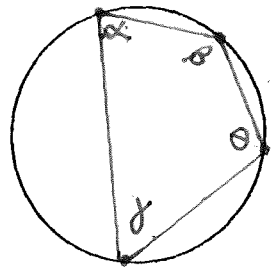


Inscribed angles subtended by a diameter



90°

Cyclic Quadrilaterals



$\alpha + \theta = 180^\circ$

$\beta + \gamma = 180^\circ$

Notes:

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