

$AC \parallel DQ \Rightarrow \hat{CDQ} = \alpha$

طبیعی طور پر

$DR \parallel AB \Rightarrow \hat{BDR} = \beta$

$\hat{QDC} = \alpha$
 $\hat{DCQ} = \beta$ \Rightarrow $DQ = QC$

$\hat{DBR} = \beta$
 $\hat{BDR} = \beta$ \Rightarrow $BR = DR$

$\hat{DRQ} = \gamma$
 $\hat{DQR} = \delta$ \Rightarrow $\hat{RDQ} = \delta$

$\hat{DRQ} = \hat{DQR} = \hat{RDQ} = \delta \Rightarrow \Delta DRQ \cong \Delta RDQ$

$\Rightarrow DR = RQ = DQ$
 $DQ = QC \Rightarrow BR = RQ = QC$
 $RD = BR$

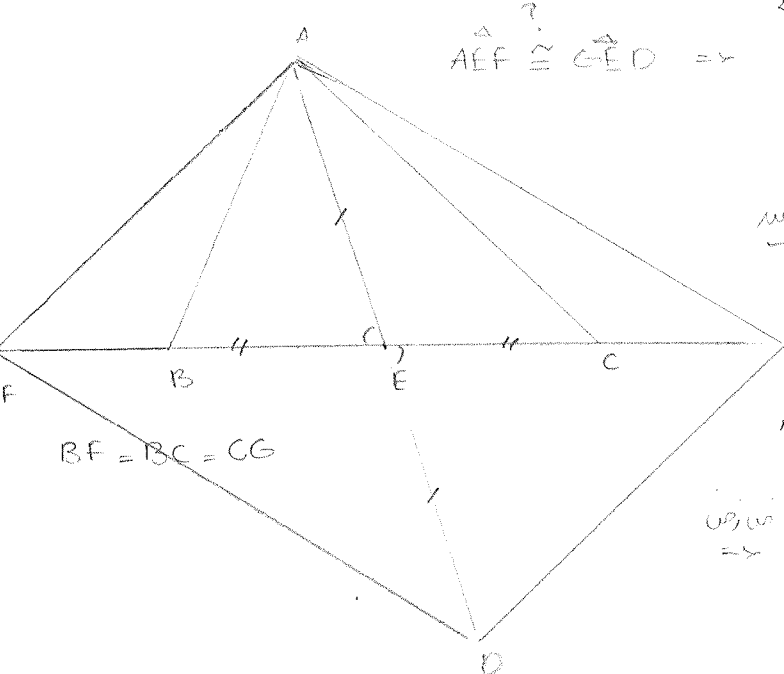
مربع کے
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$\Delta AFD \cong \Delta AGD$

$\Delta AEF \cong \Delta GED \Rightarrow$

$\begin{cases} \hat{AEB} = \hat{GED} \\ AE = DE \\ BF + \frac{BC}{2} = \frac{BC}{2} + CG \end{cases} \Rightarrow \Delta AEF \cong \Delta GED$

$\Rightarrow AF = GD$ (1)



$BF = BC = CG$

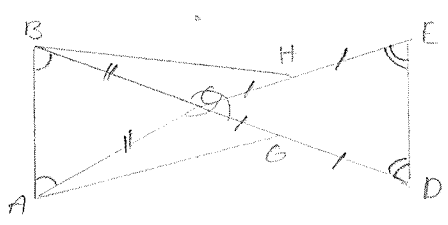
$\Delta AEG \cong \Delta EFD \Rightarrow \begin{cases} \hat{FED} = \hat{AEG} \\ AE = ED \\ FE = EG \end{cases}$

$\Rightarrow \Delta AEG \cong \Delta EFD \Rightarrow \begin{cases} FD = AG \end{cases}$ (2)

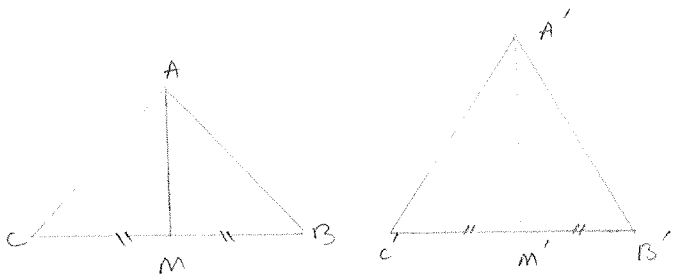
$\begin{cases} AF = GD \text{ (1)} \\ AD = AD \\ FD = AG \text{ (2)} \end{cases} \Rightarrow \Delta AFD \cong \Delta ADG$

مربع کے

$\hat{ACE} = \hat{BCD} \Rightarrow \hat{ACE} - \hat{ECD} = \hat{BCD} - \hat{ECD} \Rightarrow \hat{BCH} = \hat{ACG}$ (1)



$\begin{cases} AC = BC \\ \hat{BCH} = \hat{ACG} \text{ (1)} \\ CH = CG \text{ (2)} \end{cases} \Rightarrow \Delta BCH \cong \Delta ACG \Rightarrow AG = BH$



∠°
w w b

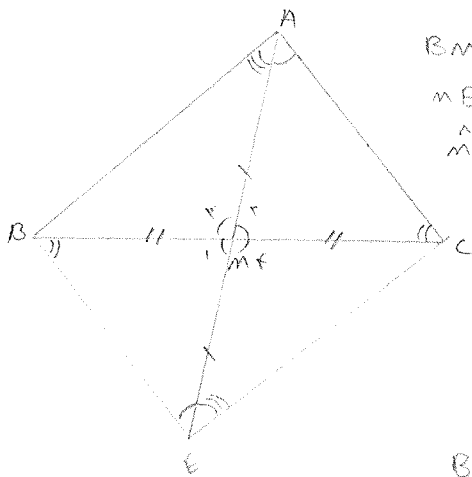
$$AB = A'B' \quad \text{or } \hat{\circ}$$

$$\hat{B} = \hat{B}' \quad \text{or } \hat{\circ}$$

$$CB = C'B' \Rightarrow \frac{CB}{r} = \frac{C'B'}{r} \Rightarrow MB = M'B'$$

$$\Rightarrow \triangle AMB \cong \triangle A'M'B' \Rightarrow \boxed{AM = A'M}$$

∠°
w w b



Wird ein Viereck ABEC gebildet w w b

$$\left. \begin{array}{l} BM = CM \\ ME = AM \\ \hat{M}_1 = \hat{M}_2 \end{array} \right\} \Rightarrow \triangle MBE \cong \triangle AMC \Rightarrow$$

$$\left. \begin{array}{l} \hat{M}_3 = \hat{M}_4 \\ BM = MC \\ EM = AM \end{array} \right\} \Rightarrow \triangle BMA \cong \triangle EMC \Rightarrow$$

$$\left\{ \begin{array}{l} \boxed{BE = AC} \\ \hat{BEM} = \hat{MAC} \\ \hat{MBE} = \hat{MCA} \end{array} \right.$$

$$\left\{ \begin{array}{l} \boxed{AB = CE} \\ \hat{BAM} = \hat{MEC} \\ \hat{ABM} = \hat{MCE} \end{array} \right.$$

$$\Rightarrow BE = AC \cdot AB = CE$$

$$\left. \begin{array}{l} \hat{ACM} = \hat{MBE} \Rightarrow AC \parallel BE \\ \hat{BAM} = \hat{MEC} \Rightarrow AB \parallel CE \end{array} \right\} \Rightarrow \text{ACEB ein Viereck}$$