

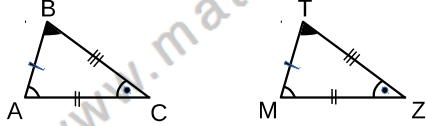
ÜÇGENLER-6

EŞLİK

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ABC ve MTZ üçgenleri arasında bire bir eşleme kurulduğunda; karşılıklı kenarlar ve karşılıklı açılar eş ise ABC ve MTZ üçgenleri eştir denir.

$\triangle ABC \cong \triangle MTZ$ ile bu eşlik gösterilir.



$$\triangle ABC \cong \triangle MTZ \iff \left\{ \begin{array}{l} |AC|=|MZ| \\ |AB|=|MT| \\ |BC|=|TZ| \end{array} \right. \left. \begin{array}{l} m(\hat{A})=m(\hat{M}) \\ m(\hat{B})=m(\hat{T}) \\ m(\hat{C})=m(\hat{Z}) \end{array} \right\}$$

Örnek...1 :

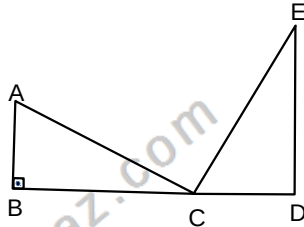
B, C, D doğrusal noktaldır.

$$m(\hat{B})=90^\circ$$

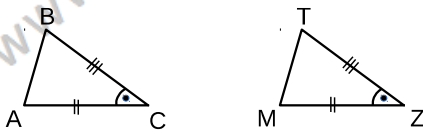
$$|CD|=3br, |BC|=4br$$

$\triangle ABC \cong \triangle CDE$ ise

|AE| kaç birimdir?



2. Kenar - açı - kenar eşlik teoremi



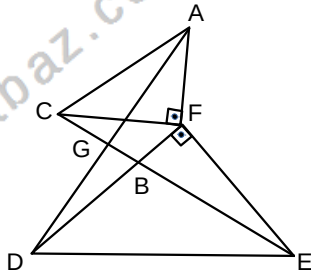
$$\left. \begin{array}{l} m(\hat{C})=m(\hat{Z}) \\ |AC|=|MZ| \\ |BC|=|TZ| \end{array} \right\} \implies \triangle ABC \cong \triangle MTZ$$

Örnek...2 :

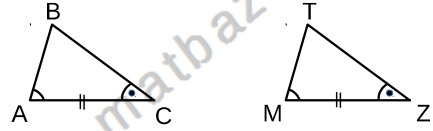
AFC ve DFE ikizkenar dik üçgenlerdir.

$$m(\hat{CFA})=m(\hat{DFE})=90^\circ$$

ise $m(\hat{CGD})$ kaç birimdir?



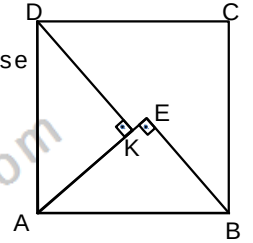
1. Açı - kenar- açı eşlik teoremi



$$\left. \begin{array}{l} m(\hat{A})=m(\hat{M}) \\ m(\hat{C})=m(\hat{Z}) \\ |AC|=|MZ| \end{array} \right\} \implies \triangle ABC \cong \triangle MTZ$$

Örnek...3 :

ABCD kare, AEB ve AKD dik üçgenlerdir. $|KE|=2br, |AK|=6br$ ise $\square(ABCD)$ kaç birimdir?

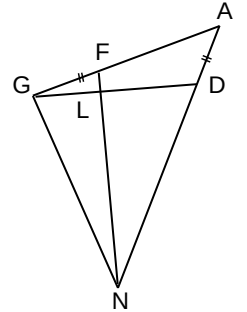


Örnek...4 :

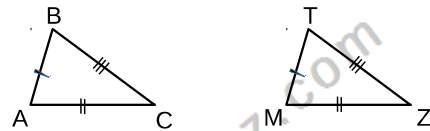
AGN eşkenar üçgendir.

$|AD|=|GF|$ ve $m(\hat{AGD})=19^\circ$ ise

$m(\hat{FND})$ kaç derecedir?



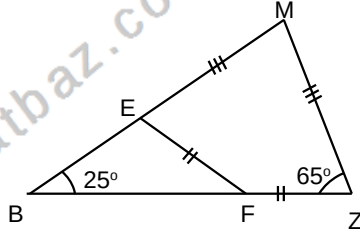
3. Kenar - kenar- kenar eşlik teoremi



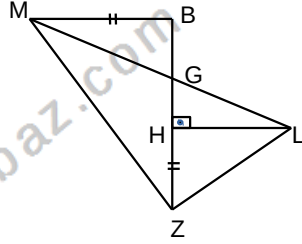
$$\left. \begin{array}{l} |AC|=|MZ| \\ |AB|=|MT| \\ |BC|=|TZ| \end{array} \right\} \implies \triangle ABC \cong \triangle MTZ$$

DEĞERLENDİRME

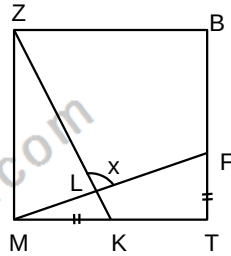
- 1) MBZ bir üçgendir.
 $|EF|=|FZ|$,
 $|EM|=|MZ|$
 olduğuna göre
 $m(\widehat{EFZ})$ kaç
 derecedir?



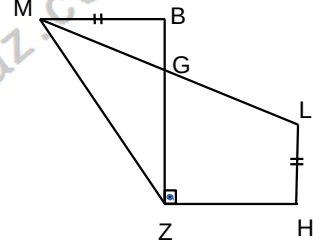
- 2) MBZ bir üçgendir.
 $[MB] \parallel [HL]$
 $|MB|=|HZ|$,
 $|ZB|=|HL|$,
 $m(\widehat{HZL})=64^\circ$ ise
 $m(\widehat{HLG})$ kaç
 derecedir?



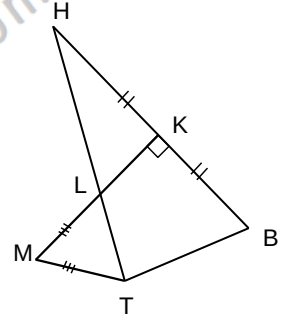
- 3) MTBZ bir karedir.
 $|MK|=|FT|$, olduğuna
 göre $m(\widehat{ZLF})=x$ kaç
 derecedir?



- 4) MBZ bir üçgendir.
 $m(\widehat{BZH})=90^\circ$
 $|MB|=|LH|$,
 $|ZB|=|HZ|$,
 $[MB] \parallel [HZ]$,
 $[ZB] \parallel [HL]$ ise
 $m(\widehat{LMZ})$ kaç
 derecedir?



- 5) MTBK bir dörtgendir.
 $m(\widehat{MTB})=134^\circ$, $|KB|=|HK|$,
 $|ML|=|MT|$, $|HL|=|TB|$,
 $[MK] \perp [HB]$ olduğuna göre
 $m(\widehat{THK})$ kaç derecedir?



- 6) MTBZ bir dörtgendir.
 $|KT|=|KB|$, $|BL|=|LZ|$
 $m(\widehat{TMZ})=138^\circ$
 olduğuna $m(\widehat{TBZ})$
 kaç derecedir?

