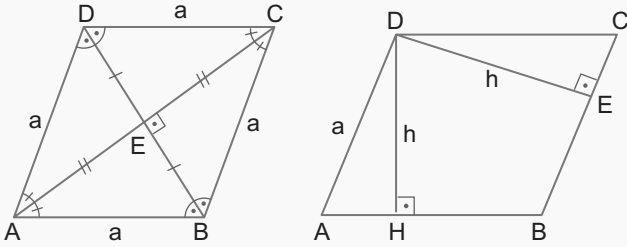




EŞKENAR DÖRTGEN - DELTOİD

Eşkenar Dörtgen

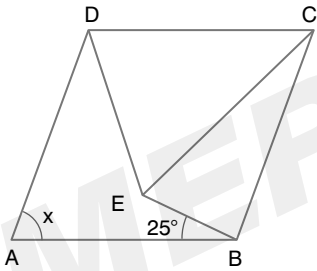


$|BD| = e, |AC| = f, |AB| = a$ ise

➤ $A(ABCD) = \dots\dots\dots$

➤ $A(ABCD) = \dots\dots\dots$

Örnek 1



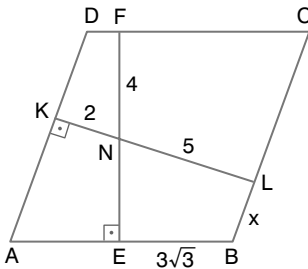
ABCD eşkenar dörtgen

DEC eşkenar üçgen

$m(\widehat{ABE}) = 25^\circ$

Yukarıdaki verilere göre, $m(\widehat{DAB}) = x$ kaç derecedir?

Örnek 2



ABCD eşkenar dörtgen

$[KL] \perp [AD]$

$[EF] \perp [AB]$

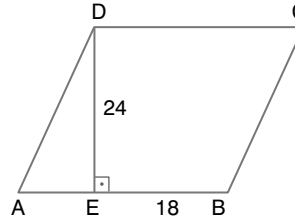
$|FN| = 2|KN| = 4$ cm

$|EB| = 3\sqrt{3}$ cm

$|LN| = 5$ cm

Yukarıdaki verilere göre, $|BL| = x$ kaç cm'dir?

Örnek 3



ABCD eşkenar dörtgen

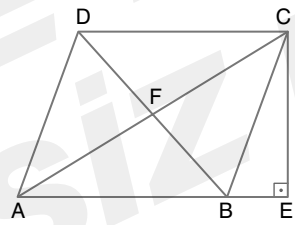
$[DE] \perp [AB]$

$|DE| = 24$ cm

$|EB| = 18$ cm

Yukarıdaki verilere göre, Çevre(ABCD) kaç cm'dir?

Örnek 4



ABCD eşkenar dörtgen

$[AC] \cap [BD] = \{F\}$

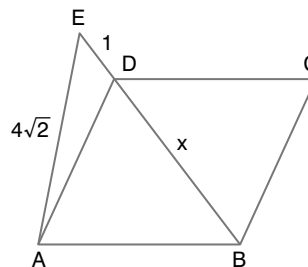
$[CE] \perp [AE]$

$|CE| = 12$ cm

$|AE| = 18$ cm

Yukarıdaki verilere göre, $|AC| \cdot |BD|$ çarpımının sonucu kaç cm^2 dir?

Örnek 5



ABCD eşkenar dörtgen

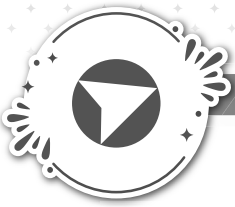
AEB üçgen

Çevre(ABCD) = 20 cm

$|ED| = 1$ cm

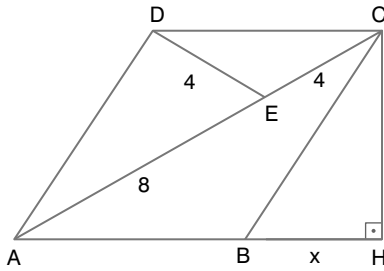
$|AE| = 4\sqrt{2}$ cm

Yukarıdaki verilere göre, $|BD| = x$ kaç cm'dir?



Eşkenar Dörtgen

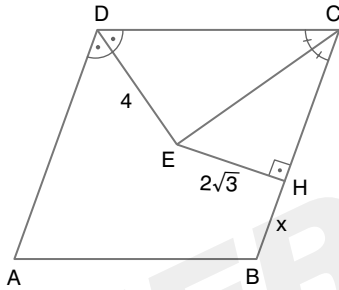
Örnek 6



ABCD eşkenar dörtgen
[AC] köşegen
[CH] \perp [AH]
|DE| = |EC| = 4 cm
|AE| = 8 cm

Yukarıdaki verilere göre, |BH| = x kaç cm'dir?

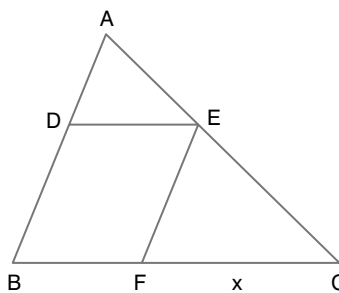
Örnek 7



ABCD eşkenar dörtgen
[DE] ve [CE] açıortay
[EH] \perp [BC]
|DE| = 4 cm
|EH| = $2\sqrt{3}$ cm

Yukarıdaki verilere göre, |BH| = x kaç cm'dir?

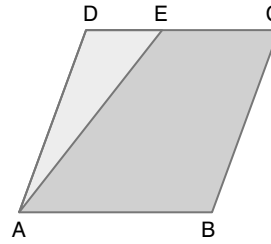
Örnek 8



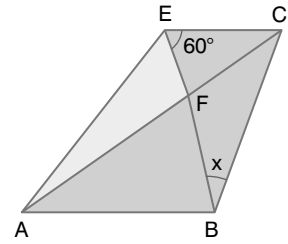
ABC bir üçgen
BDEF eşkenar dörtgen
Çevre(BDEF) = 40 cm
|AB| = 15 cm

Yukarıdaki verilere göre, |FC| = x kaç cm'dir?

Örnek 9



Şekil 1

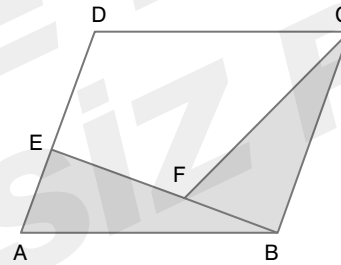


Şekil 2

Şekil 1'deki ABCD eşkenar dörtgeninin D köşesi [AE] boyunca katlandığında D köşesi [AC] köşegeni üzerindeki F noktasıyla çıkışmaktadır.

$m(\widehat{FDC}) = 60^\circ$ olduğuna göre, $m(\widehat{CBF}) = x$ kaç derecedir?

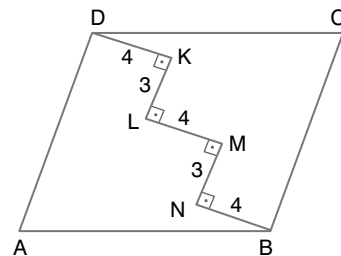
Örnek 10



ABCD eşkenar dörtgen
|BE| = 3|BF|
|DE| = 3|AE|

Yukarıdaki verilere göre, $\frac{A(ABE)}{A(BFC)}$ oranı kaçtır?

Örnek 11



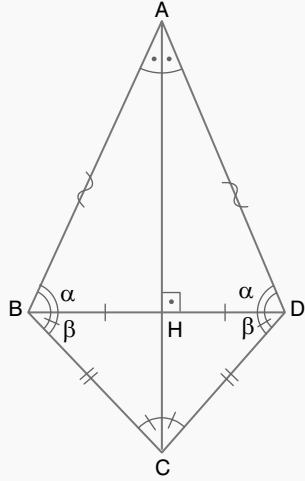
ABCD eşkenar dörtgen
[BN] \perp [MN]
[DK] \perp [KL]
[KL] \perp [LM]
[LM] \perp [MN]
[AD] // [LK]

|KL| = |MN| = 3 cm, |DK| = |LM| = |BN| = 4 cm

Buna göre, Çevre(ABCD) kaç cm'dir?

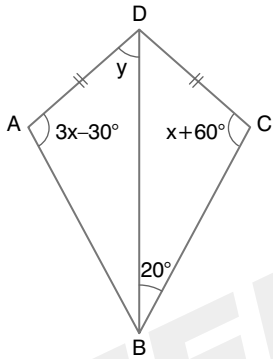


Deltoid



$$\begin{aligned}
 |AB| &= |AD| \\
 |BC| &= |CD| \\
 m(\widehat{ABC}) &= m(\widehat{ADC}) \\
 [AC] &\text{ açıortay köşegeni} \\
 [AC] &\perp [BD] \\
 |BH| &= |HD| \\
 \text{Alan}(ABCD) &= \frac{|AC| \cdot |BD|}{2}
 \end{aligned}$$

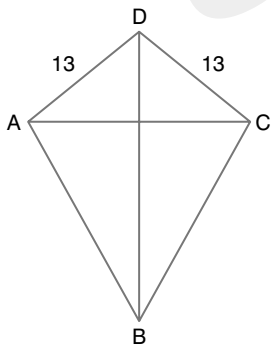
Örnek 12



$$\begin{aligned}
 ABCD &\text{ deltoid} \\
 |AD| &= |DC| \\
 m(\widehat{DAB}) &= 3x - 30^\circ \\
 m(\widehat{DCB}) &= x + 60^\circ \\
 m(\widehat{CBD}) &= 20^\circ
 \end{aligned}$$

Buna göre, $m(\widehat{BDA}) = y$ kaç derecedir?

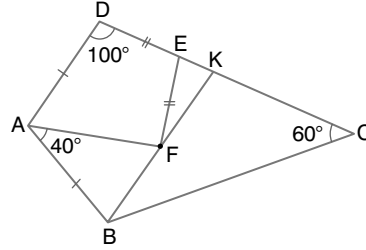
Örnek 13



$$\begin{aligned}
 ABCD &\text{ deltoid} \\
 [AC] &\text{ ve } [BD] \text{ köşegen} \\
 |AD| &= |DC| = 13 \text{ cm} \\
 |BD| &= 21 \text{ cm} \\
 \text{Çevre}(ABCD) &= 66 \text{ cm}
 \end{aligned}$$

Buna göre, $|AC| - |AB|$ farkı kaç cm'dir?

Örnek 14

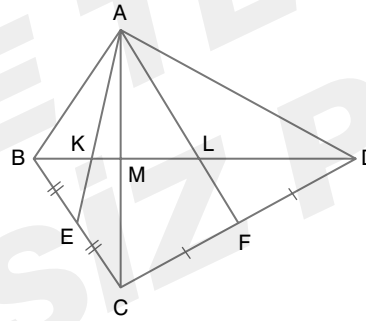


$$\begin{aligned}
 ABCD &\text{ ve } ADEF \text{ birer deltoid} \\
 ABKD &\text{ dörtgen} \\
 |DE| &= |EF| \\
 |AD| &= |AB|
 \end{aligned}$$

$$m(\widehat{ADC}) = 100^\circ, m(\widehat{DCB}) = 60^\circ, m(\widehat{FAB}) = 40^\circ$$

Buna göre, $m(\widehat{AFB}) + m(\widehat{DEF})$ toplamı kaç derecedir?

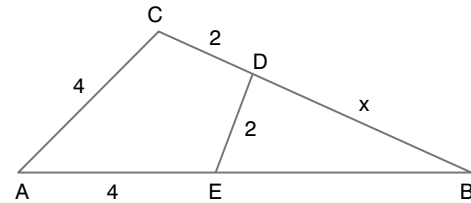
Örnek 15



$$\begin{aligned}
 ABCD &\text{ bir deltoid} \\
 [AC] &\text{ ve } [BD] \text{ köşegen} \\
 |AD| &= |CD| \\
 |BE| &= |EC| \\
 |CF| &= |FD|
 \end{aligned}$$

Buna göre, $\frac{|EF|}{|BK| + |DL|}$ oranı kaçtır?

Örnek 16



ABC bir üçgen, $|DC| = |DE| = 2 \text{ cm}$, $|AC| = |AE| = 4 \text{ cm}$

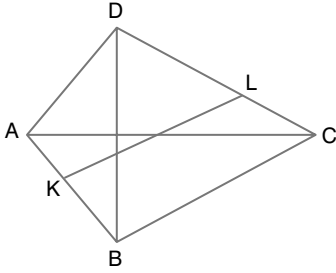
$\text{Çevre}(DEB) = 13 \text{ cm}$

Buna göre, $|BD| = x$ kaç cm'dir?



Deltoid

Örnek 17



ABCD bir deltoid

$$|AD| = |AB|$$

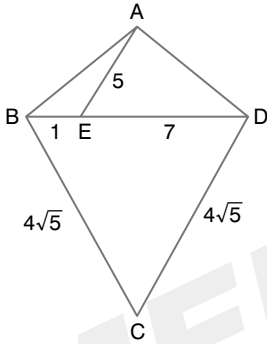
$$\frac{|AK|}{|BK|} = \frac{|LC|}{|DL|} = \frac{1}{2}$$

$$|AC| = 18 \text{ cm}$$

$$|BD| = 12 \text{ cm}$$

Buna göre, $|KL|$ kaç cm'dir?

Örnek 18



ABCD bir deltoid

ABD üçgen

$$|BE| = 1 \text{ cm}$$

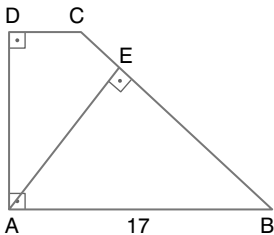
$$|AE| = 5 \text{ cm}$$

$$|ED| = 7 \text{ cm}$$

$$|DC| = |BC| = 4\sqrt{5} \text{ cm}$$

Buna göre, Alan(ABCD) kaç cm^2 dir?

Örnek 19



ABCD bir dik yamuk

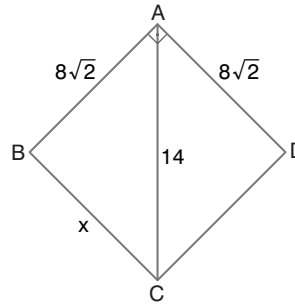
ADCE bir deltoid

$$|DC| = |CE| = 2 \text{ cm}$$

$$|AB| = 17 \text{ cm}$$

Buna göre, Alan(ABCD) kaç cm^2 dir?

Örnek 20



ABCD bir deltoid

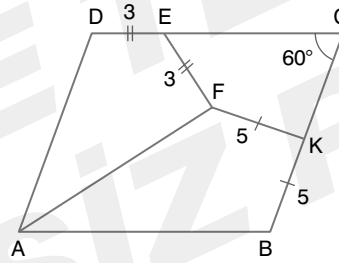
$$[AB] \perp [AD]$$

$$|AB| = |AD| = 8\sqrt{2} \text{ cm}$$

$$|AC| = 14 \text{ cm}$$

Yukarıdaki verilere göre, $|BC| = x$ kaç cm'dir?

Örnek 21



ABCD bir paralelkenar

ADEF ve AFKB birer deltoid

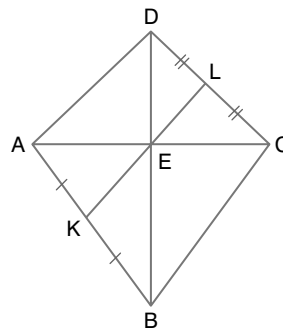
$$m(\widehat{DCB}) = 60^\circ$$

$$|FK| = |KB| = 5 \text{ cm}$$

$$|DE| = |EF| = 3 \text{ cm}$$

Buna göre, $|EK|$ kaç cm'dir?

Örnek 22



ABCD bir deltoid

$$[AC] \cap [BD] \cap [KL] = \{E\}$$

$$|DL| = |LC|$$

$$|AK| = |KB|$$

$$\text{Çevre}(ABCD) = 64 \text{ cm}$$

Buna göre, $|KL|$ kaç cm'dir?