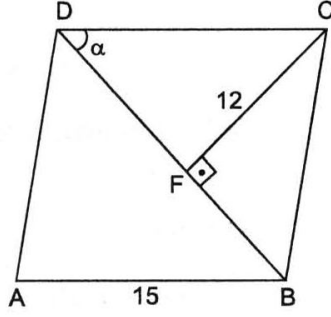


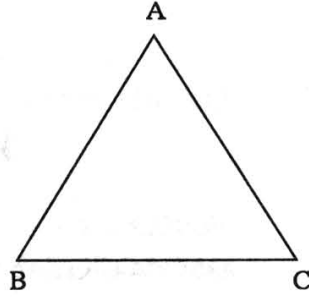
18. Şekilde ABCD paralelkenar,  
 $[CF] \perp [BD]$   
 $|CF| = 12$  br  
 $|AB| = 15$  br  
 $m(\widehat{BDC}) = \alpha$   
**olduğuna göre,  $\cot \alpha$  kaçtır?**



- A)  $\frac{5}{3}$  B)  $\frac{4}{3}$  C)  $\frac{3}{4}$  D)  $\frac{3}{5}$  E)  $\frac{4}{9}$

C

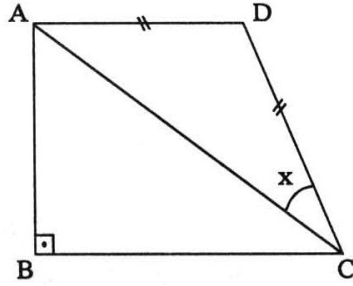
19. Şekilde,  
 $|AB| = |AC|$   
 $\sin \widehat{A} = \frac{4}{5}$   
**ise  $\cos \widehat{C}$  kaçtır?**



- A)  $\frac{\sqrt{5}}{5}$  B)  $\frac{2\sqrt{5}}{7}$  C)  $\frac{2}{\sqrt{5}}$  D)  $\frac{2}{\sqrt{3}}$  E)  $\frac{\sqrt{3}}{5}$

A

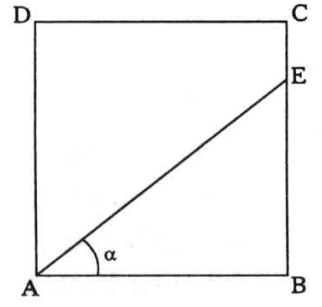
20. Şekilde,  
ABCD yamuk,  
 $[AB] \perp [BC]$   
 $|AD| = |DC|$   
 $|AB| = 5$  br  
 $|BC| = 12$  br ve  
 $m(\widehat{ACD}) = x$   
**ise  $\cos x$  kaçtır?**



- A)  $\frac{12}{13}$  B)  $\frac{5}{13}$  C)  $\frac{12}{5}$  D)  $\frac{13}{5}$  E)  $\frac{5}{2}$

A

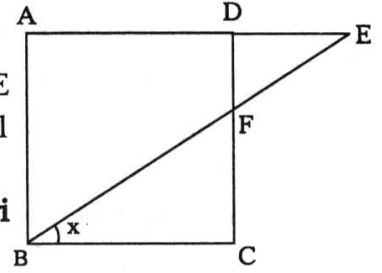
22. Şekilde,  
ABCD kare,  
 $|CE| = 2$  br  
 $|EB| = 4$  br ve  
 $m(\widehat{EAB}) = \alpha$   
**ise  $\sin \alpha$  kaçtır?**



- A) 4 B)  $2\sqrt{13}$  C)  $\frac{2\sqrt{13}}{13}$   
D)  $\frac{2\sqrt{21}}{21}$  E)  $\sqrt{21}$

C

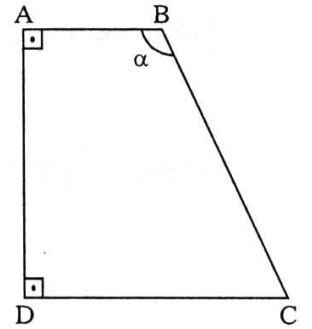
23. Şekilde,  
ABCD kare,  
B, F, E ve A, D, E  
noktaları doğrusal  
 $3|DE| = 2|BC|$   
**ise  $\tan x$  değeri kaçtır?**



- A)  $\frac{1}{4}$  B)  $\frac{3}{4}$  C)  $\frac{3}{5}$  D)  $\frac{4}{5}$  E)  $\frac{2}{5}$

C

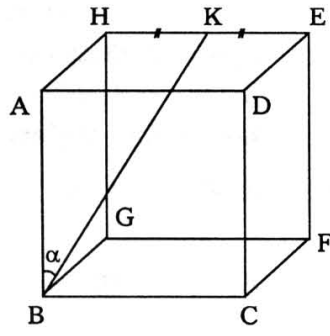
2. ABCD bir dik yamuk  
 $|AB| = 6$  br  
 $|AD| = 9$  br  
 $|DC| = 18$  br  
 $m(\widehat{ABC}) = \alpha$   
**ise  $\cos \alpha$  kaçtır?**



- A)  $\frac{3}{5}$  B)  $\frac{3}{4}$  C)  $\frac{4}{5}$  D)  $-\frac{4}{5}$  E)  $-\frac{3}{5}$

D

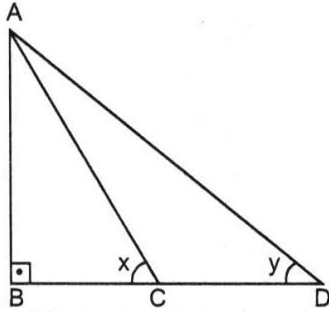
3. Şekildeki bir küpte  
K bir orta nokta  
 $m(\widehat{KBA}) = \alpha$   
ise  $\cos \alpha$  kaçtır?



- A)  $\frac{\sqrt{5}}{3}$  B)  $\frac{3}{\sqrt{5}}$  C)  $\frac{2}{3}$  D)  $\frac{2}{5}$  E)  $\frac{2}{3\sqrt{5}}$

C

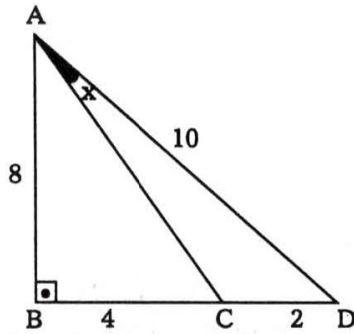
12. ABD dik üçgeni  
 $[AB] \perp [BD]$   
 $3|BC| = |CD|$   
 $m(\widehat{ACB}) = x$   
 $m(\widehat{ADB}) = y$   
ise  $\cot x \cdot \tan y$   
kaçtır?



- A)  $\frac{1}{4}$  B)  $\frac{1}{2}$  C) 1 D) 3 E) 4

A

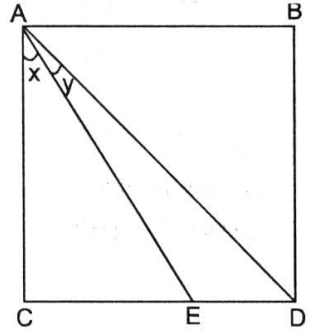
16. ABC bir üçgen,  
 $[AB] \perp [BD]$   
 $|AB| = 8 \text{ br}$   
 $|BC| = 4 \text{ br}$   
 $|CD| = 2 \text{ br}$  ve  
 $|AD| = 10 \text{ br}$   
 $m(\widehat{CAD}) = x$   
ise  $\tan x$  kaçtır?



- A)  $\frac{1}{11}$  B)  $\frac{2}{11}$  C)  $\frac{3}{11}$  D)  $\frac{4}{11}$  E)  $\frac{5}{11}$

B

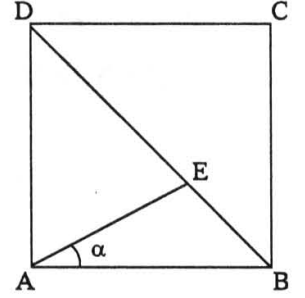
17. ABCD kare,  
 $\cos x = \frac{4}{5}$   
olduğuna göre,  
 $\cot y$  kaçtır?



- A) 7 B)  $\frac{4}{3}$  C)  $\frac{3}{5}$  D)  $\frac{2}{5}$  E)  $\frac{1}{7}$

A

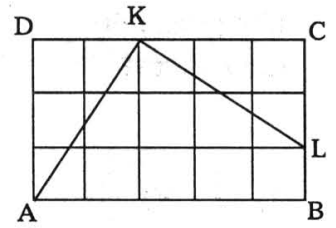
18. ABCD kare,  
 $|DE| = 5|EB|$   
 $m(\widehat{BAE}) = \alpha$   
ise  $\tan \alpha$  kaçtır?



- A)  $\frac{1}{5}$  B)  $\frac{1}{6}$  C)  $\frac{1}{7}$  D)  $\frac{1}{8}$  E)  $\frac{1}{9}$

A

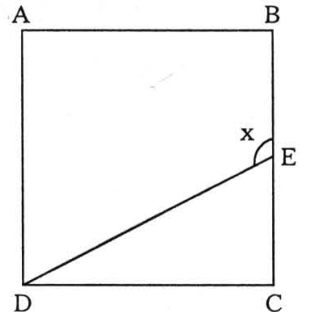
19. ABCD dikdörtgeni,  
özdeş karelerden  
oluşturmuştur.  
Buna göre,  
 $\sin(\widehat{AKL})$  kaçtır?



- A)  $\frac{1}{2}$  B)  $\frac{\sqrt{2}}{2}$  C)  $\frac{\sqrt{3}}{3}$  D)  $\frac{\sqrt{3}}{2}$  E) 1

E

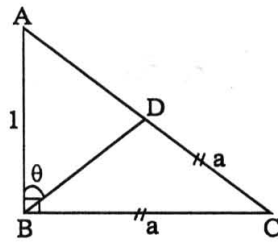
21. ABCD kare,  
 $|BE| = 3|EC|$   
 $m(\widehat{DEB}) = x$   
olduğuna göre,  
 $\tan x$  kaçtır?



- A) -4 B) -3 C)  $-\frac{2}{3}$  D) 3 E) 4

A

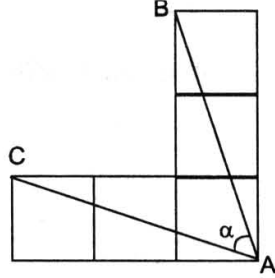
22. ABC dik üçgen,  
 $|DC| = |BC| = a$  br  
 $|AB| = 1$  br  
 $m(\widehat{ABD}) = \theta$   
**olduğuna göre,**  
**cot $2\theta$  değeri kaçtır?**



- A)  $2a$  B)  $\frac{3a}{2}$  C)  $a-1$  D)  $a$  E)  $1$

D

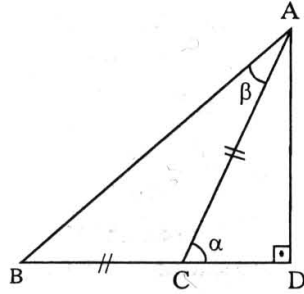
23. Yandaki şekilde beş özdeş kare verilmiştir.  
 $m(\widehat{BAC}) = \alpha$   
**ise tan $\alpha$  nın değeri kaçtır?**



- A)  $\frac{3}{5}$  B)  $\frac{3}{4}$  C)  $\frac{4}{3}$  D)  $\frac{5}{3}$  E)  $2$

C

24. ADB dik üçgen,  
 $[AD] \perp [BD]$   
 $|BC| = |AC|$   
 $m(\widehat{BAC}) = \beta$   
 $m(\widehat{ACD}) = \alpha$  ve  
 $\tan\alpha = \frac{1}{2}$

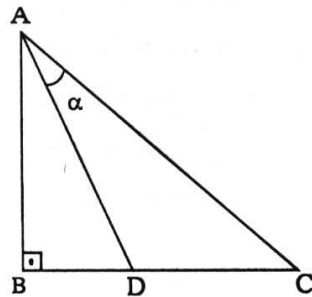


**ise cot $\beta$  değeri kaçtır?**

- A)  $2$  B)  $\sqrt{5}+2$  C)  $1+\sqrt{5}$  D)  $-\frac{\sqrt{5}}{5}$  E)  $-\frac{\sqrt{5}}{2}$

B

1. ABC dik üçgen,  
 $[AB] \perp [BC]$   
 $|AB| = 1$  br  
 $|BD| = m$  br  
 $|DC| = 3$  br ve  
 $m(\widehat{DAC}) = \alpha$

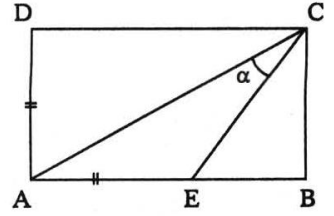


**ise tan $\alpha$  aşağıdakilerden hangisidir?**

- A)  $\frac{3}{1+2m+m^2}$  B)  $\frac{3}{1+3m+m^2}$   
C)  $\frac{4}{1-2m-m^2}$  D)  $\frac{4}{1+3m+m^2}$   
E)  $\frac{4}{1+2m+m^2}$

B

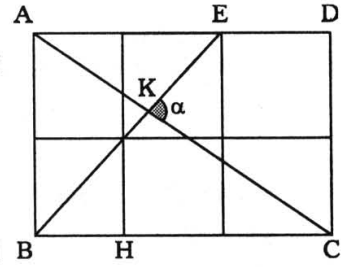
2. ABCD bir dikdörtgen,  
 $|AD| = |AE|$  ve  
 $|BC| = 2|EB|$   
 $m(\widehat{ACE}) = \alpha$   
**ise tan $\alpha$  kaçtır?**



- A)  $\frac{1}{7}$  B)  $\frac{2}{5}$  C)  $\frac{3}{7}$  D)  $\frac{4}{7}$  E)  $\frac{3}{5}$

D

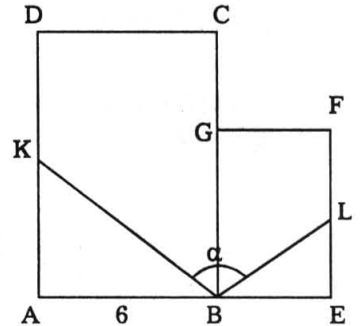
3. Şekildeki, ABCD dikdörtgeni 6 eş kareden oluşmuştur.  
**A, K, C ve B, K, E noktaları doğrusal**  
 $m(\widehat{EKC}) = \alpha$   
**ise tan $\alpha$  nın değeri kaçtır?**



- A)  $1$  B)  $2$  C)  $3$  D)  $4$  E)  $5$

E

4. ABCD ve BEFG dikdörtgen,  
 $3|DK| = |AD| = 12$  br  
 $3|FL| = 2|BE| = |AB| = |EF| = 6$  br ve  
 $m(\widehat{KBL}) = \alpha$   
**ise cos $\alpha$  nın değeri kaçtır?**

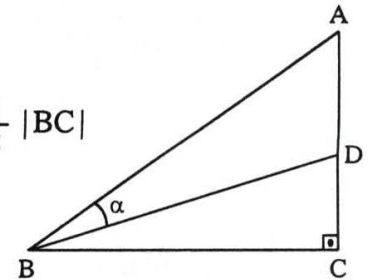


- A)  $\frac{7}{25}$  B)  $\frac{1}{25}$  C)  $\frac{1}{5}$  D)  $\frac{4}{5}$  E)  $\frac{24}{25}$

A

5. ABC dik üçgen,  
 $[AC] \perp [CB]$   
 $|AD| = 2|DC| = \frac{1}{2}|BC|$

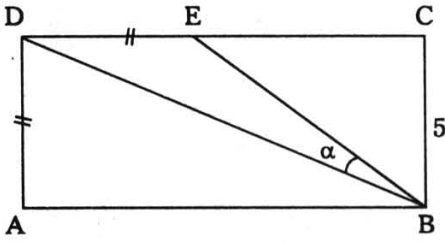
**olduğuna göre,**  
**tan $\alpha$  kaçtır?**



- A)  $\frac{3}{5}$  B)  $\frac{7}{11}$  C)  $\frac{8}{19}$  D)  $\frac{10}{21}$  E)  $\frac{13}{23}$

C

6.



ABCD bir dikdörtgen,

$$|AD| = |DE| \text{ ve}$$

$$|EC| = 2|BC| = 10 \text{ cm}$$

$$m(\widehat{DBE}) = \alpha$$

ise  $\tan \alpha$  kaçtır?

- A)  $\frac{1}{7}$  B)  $\frac{2}{5}$  C)  $\frac{3}{7}$  D)  $\frac{4}{7}$  E)  $\frac{3}{5}$

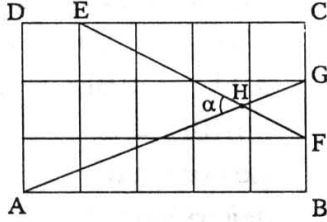
A

7.

Şekilde, ABCD dikdörtgeni birim kareler ile bölünmüştür.

$$m(\widehat{AHE}) = \alpha$$

ise  $\tan \alpha$  değeri kaçtır?



- A)  $\frac{9}{8}$  B)  $-\frac{3}{4}$  C)  $\frac{9}{4}$  D)  $\frac{5}{9}$  E)  $\frac{4}{3}$

A

8.

ABCD dikdörtgen,

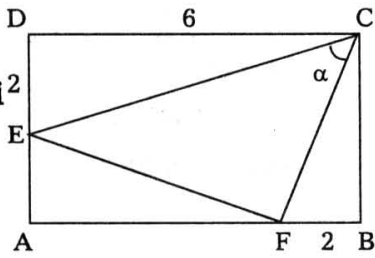
$$|DC| = 3|DE| = 3|BF| = 6 \text{ cm}$$

E noktası [AD] nin

orta noktası

$$m(\widehat{ECF}) = \alpha$$

ise  $\tan \alpha$  değeri kaçtır?



- A)  $\frac{\sqrt{3}}{2}$  B)  $\frac{\sqrt{2}}{2}$  C) 1 D) 2 E)  $\frac{5}{2}$

C

9.

ABC dik üçgen,

$$[AB] \perp [BC]$$

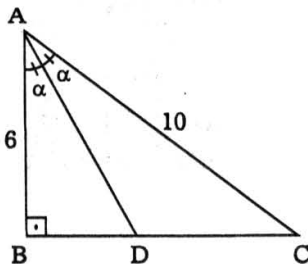
[AD] açıortay

$$m(\widehat{BAD}) = m(\widehat{DAC}) = \alpha$$

$$|AB| = 6 \text{ cm ve}$$

$$|AC| = 10 \text{ cm}$$

ise  $\tan 3\alpha$  nedir?



- A)  $\frac{7}{2}$  B)  $\frac{9}{2}$  C) 5 D)  $\frac{11}{2}$  E) 6

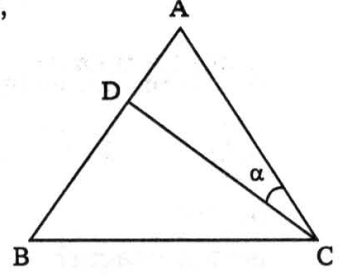
D

10. ABC eşkenar üçgen,

$$5|AD| = 3|BD|$$

$$m(\widehat{ACD}) = \alpha$$

ise  $\tan \alpha$  nın değeri nedir?



- A)  $\frac{\sqrt{3}}{4}$  B)  $\frac{3\sqrt{3}}{13}$  C)  $\frac{\sqrt{3}}{3}$  D)  $\frac{4\sqrt{13}}{13}$  E)  $\frac{\sqrt{3}}{2}$

B

11. Şekilde,

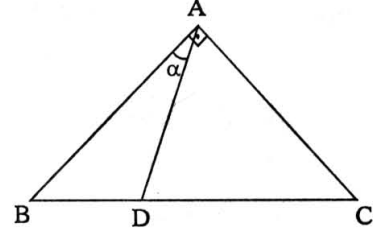
$$|AB| = |AC|$$

$$m(\widehat{BAC}) = 90^\circ$$

$$m(\widehat{BAD}) = \alpha \text{ ve}$$

$$|DC| = 2|BD|$$

ise  $\tan \alpha$  değeri kaçtır?



- A)  $\frac{1}{4}$  B)  $\frac{1}{3}$  C)  $\frac{1}{2}$  D) 1 E) 2

C

12. Şekilde,

$$[AD] \perp [BD]$$

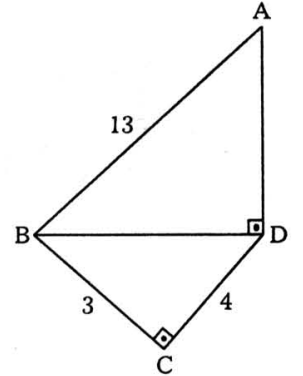
$$[BC] \perp [DC]$$

$$|AB| = 13 \text{ br}$$

$$|BC| = 3 \text{ br}$$

$$|DC| = 4 \text{ br}$$

ise  $\sin(\widehat{ABC})$  kaçtır?



- A)  $\frac{1}{2}$  B)  $\frac{47}{65}$  C)  $\frac{10}{13}$  D)  $\frac{11}{13}$  E)  $\frac{56}{65}$

E

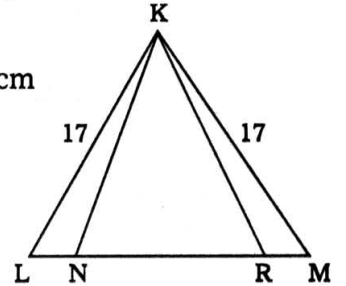
13. KLM ikizkenar üçgen,

$$|KL| = |KM| = 17 \text{ cm}$$

$$12|RN| = 4|LN| = 12 \text{ cm}$$

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

ise  $\cot(\widehat{NKR})$  kaçtır?



- A)  $\frac{36}{23}$  B)  $\frac{17}{15}$  C)  $\frac{19}{18}$  D)  $\frac{18}{19}$  E)  $\frac{15}{17}$

C