

Ad / Soyad :

Sınıf / No :

ÇÖZ
BİTİR

Özel Üçgenler

1. ABC ve ACD dik üçgen

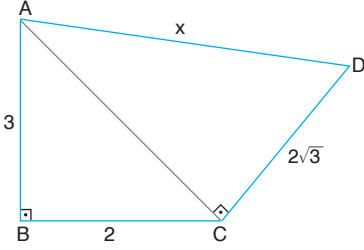
$$[AB] \perp [BC]$$

$$[AC] \perp [CD]$$

$$|AB| = 3 \text{ cm}$$

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

$$|CD| = 2\sqrt{3} \text{ cm}$$



Buna göre, $|AD| = x$ kaç cm dir?

- A) 4 B) 5 C) 6 D) 7 E) 8

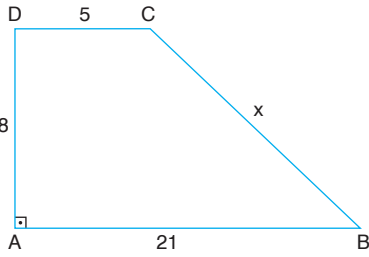
2. $[AB] \parallel [DC]$

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

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

$$|AD| = 8 \text{ cm}$$

$$|AB| = 21 \text{ cm}$$



Buna göre, $|BC| = x$ kaç cm dir?

- A) $4\sqrt{5}$ B) $5\sqrt{5}$ C) $6\sqrt{5}$ D) $7\sqrt{5}$ E) $8\sqrt{5}$

3. $[AD] \perp [DC]$

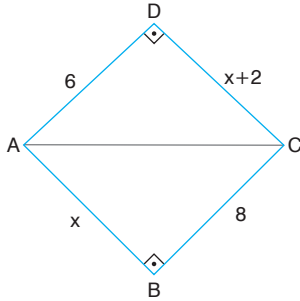
$$[AB] \perp [BC]$$

$$|AD| = 6 \text{ cm}$$

$$|BC| = 8 \text{ cm}$$

$$|CD| = x+2 \text{ cm}$$

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



Buna göre, x kaç cm dir?

- A) 4 B) 5 C) 6 D) 7 E) 8

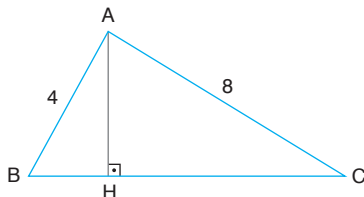
4. ABC üçgeninde

$$[AH] \perp [BC]$$

$$|AB| = 4 \text{ cm}$$

$$|AC| = 8 \text{ cm}$$

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



Buna göre, $|CH|$ kaç cm dir?

- A) 6,1 B) 6,8 C) 7,1 D) 7,4 E) 7,8

5. ABC ve DEB dik üçgen

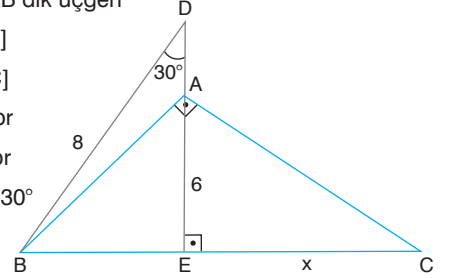
$$[BA] \perp [AC]$$

$$[DE] \perp [BC]$$

$$|BD| = 8 \text{ br}$$

$$|AE| = 6 \text{ br}$$

$$m(\widehat{BDE}) = 30^\circ$$



Buna göre, $|EC| = x$ kaç br dir?

- A) 10 B) 9 C) 8 D) 7 E) 6

6. ABC ve ACD dik üçgen

$$[BA] \perp [AC]$$

$$[AC] \perp [CD]$$

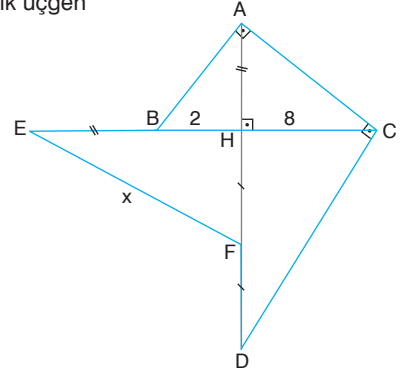
$$[AD] \perp [EC]$$

$$|AH| = |EB|$$

$$|HF| = |FD|$$

$$|BH| = 2 \text{ br}$$

$$|HC| = 8 \text{ br}$$



Buna göre, $|EF| = x$ kaç br dir?

- A) 10 B) 12 C) 14 D) 16 E) 18

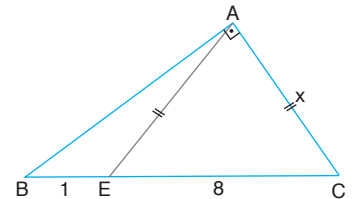
7. ABC dik üçgen

$$[BA] \perp [AC]$$

$$|AE| = |AC|$$

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

$$|CE| = 8 \text{ cm}$$



Buna göre, $|AC| = x$ kaç cm dir?

- A) 3 B) 4 C) 5 D) 6 E) 7

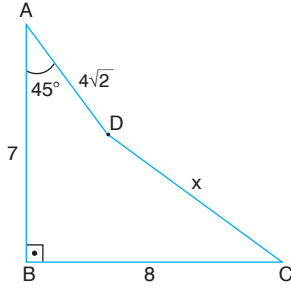
8. $[AB] \perp [BC]$

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

$$|BC| = 8 \text{ cm}$$

$$|AD| = 4\sqrt{2} \text{ cm}$$

$$m(\widehat{BAD}) = 45^\circ$$



Buna göre, $|CD| = x$ kaç cm dir?

- A) 4 B) 5 C) 6 D) 7 E) 8

9. ABC ikizkenar

dik üçgen

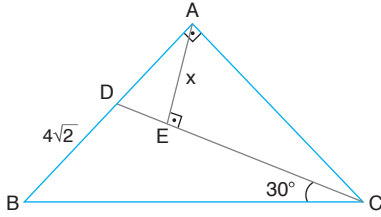
$$[BA] \perp [AC]$$

$$[AE] \perp [DC]$$

$$|AB| = |AC|$$

$$m(\widehat{DCB}) = 30^\circ$$

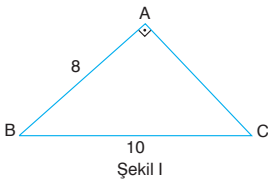
$$|BD| = 4\sqrt{2} \text{ cm}$$



Buna göre, $|AE| = x$ kaç cm dir?

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

10.



$$[AB] \perp [AC]$$

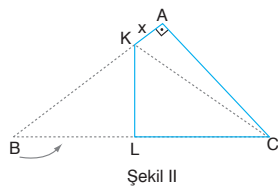
$$|AB| = 8 \text{ cm}$$

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

Şekil I deki ABC üçgeni, B köşesi C köşesi üzerine gelecek şekilde katlanıyor.

Buna göre, $|AK| = x$ kaç cm dir?

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

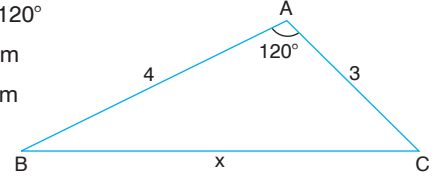


11. ABC üçgen

$$m(\widehat{BAC}) = 120^\circ$$

$$|AC| = 3 \text{ cm}$$

$$|AB| = 4 \text{ cm}$$



Buna göre, $|BC| = x$ kaç cm dir?

- A) 6 B) $\sqrt{37}$ C) $\sqrt{38}$ D) $\sqrt{39}$ E) $2\sqrt{10}$

12. $[AD] \perp [AB]$

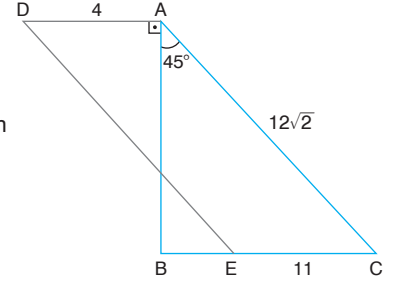
$$m(\widehat{BAC}) = 45^\circ$$

$$[AD] \parallel [BC]$$

$$|AC| = 12\sqrt{2} \text{ cm}$$

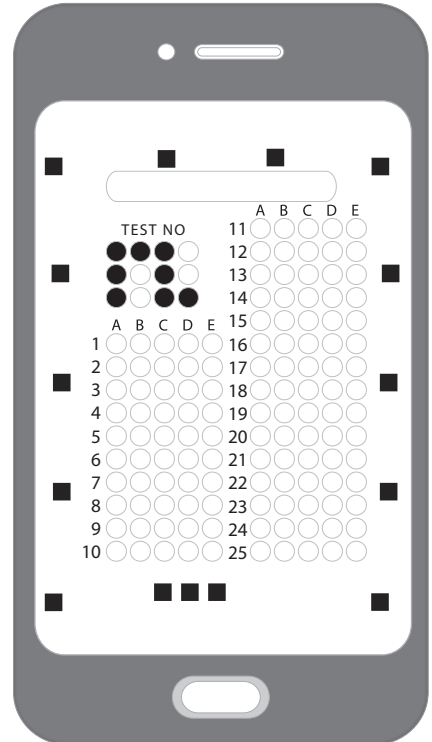
$$|AD| = 4 \text{ cm}$$

$$|EC| = 11 \text{ cm}$$



Buna göre, $|DE|$ kaç cm dir?

- A) 13 B) 14 C) 15 D) 16 E) 17



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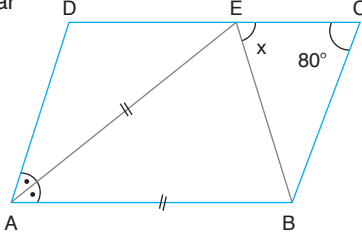
Paralelkenar

1. ABCD paralelkenar

[AE] açıortay

$|AB| = |AE|$

$m(\widehat{BCD}) = 80^\circ$



Buna göre, $m(\widehat{BEC}) = x$ kaç derecedir?

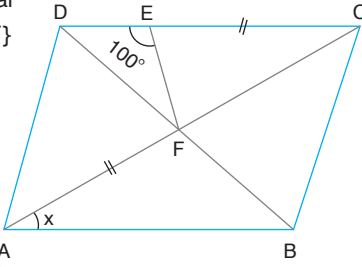
- A) 60 B) 65 C) 70 D) 75 E) 80

2. ABCD paralelkenar

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

$|AF| = |EC|$

$m(\widehat{DEF}) = 100^\circ$



Buna göre, $m(\widehat{CAB}) = x$ kaç derecedir?

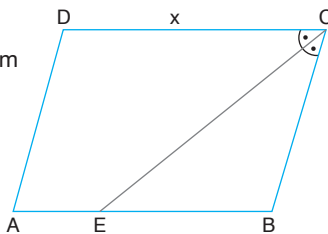
- A) 5 B) 10 C) 15 D) 20 E) 25

3. ABCD paralelkenar

[CE] açıortay

$2|AD| = 3|AE|$

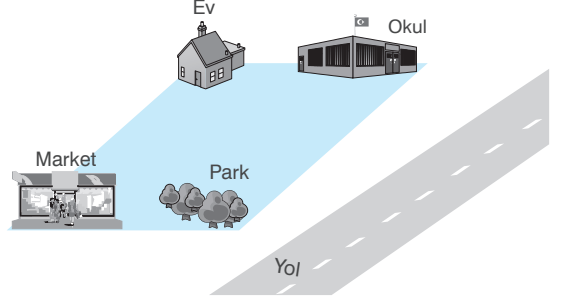
$\text{Çevre}(ABCD) = 48 \text{ cm}$



Buna göre, $|CD| = x$ kaç cm dir?

- A) 15 B) 12 C) 10 D) 9 E) 6

- 4.



Ege' nin paralelkenar şeklindeki semtinde evinin, marketin ve parkın yola uzaklığı sırasıyla, 70 m, 40 m ve 15 m dir.

Buna göre, okulun yola olan uzaklığı kaç m dir?

- A) 30 B) 35 C) 40 D) 45 E) 50

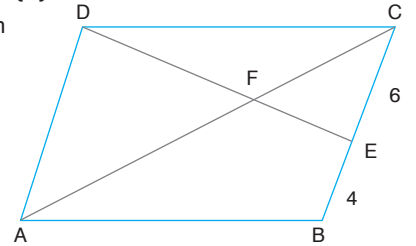
5. ABCD paralelkenar

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

$|AC| = 20 \text{ cm}$

$|CE| = 6 \text{ cm}$

$|EB| = 4 \text{ cm}$



Buna göre, $|CF|$ kaç cm dir?

- A) $\frac{13}{2}$ B) 7 C) $\frac{15}{2}$ D) 8 E) $\frac{17}{2}$

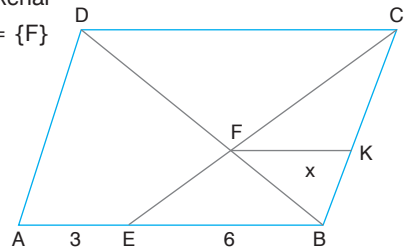
6. ABCD paralelkenar

$[DB] \cap [CE] = \{F\}$

$[FK] \parallel [DC]$

$|AE| = 3 \text{ cm}$

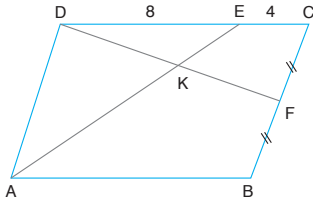
$|EB| = 6 \text{ cm}$



Buna göre, $|FK|$ kaç cm dir?

- A) $\frac{17}{5}$ B) $\frac{18}{5}$ C) $\frac{19}{5}$ D) 4 E) $\frac{21}{5}$

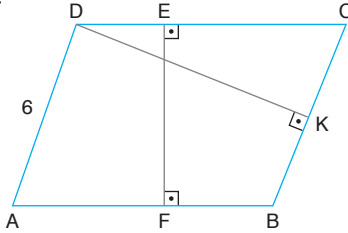
7. ABCD paralelkenar
 $[AE] \cap [DF] = \{K\}$
 $|CF| = |FB|$
 $2|EC| = |DE| = 8$ cm



Buna göre, $\frac{|AE|}{|EK|}$ oranı kaçtır?

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

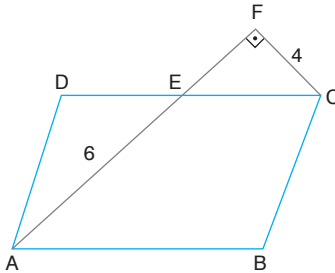
8. ABCD paralelkenar
 $[EF] \perp [AB]$
 $[DK] \perp [BC]$
 $|AB| = 15$ cm
 $|DK| = 10$ cm
 $|AD| = 6$ cm



Buna göre, $|EF|$ kaç cm dir?

- A) 3 B) $\frac{7}{2}$ C) 4 D) $\frac{9}{2}$ E) 5

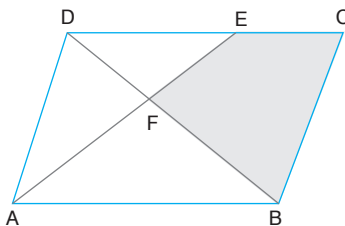
9. ABCD paralelkenar
 $[CF] \perp [AF]$
 $3|DE| = 2|EC|$
 $|CF| = 4$ cm
 $|AE| = 6$ cm



Buna göre, $A(ABCD)$ kaç cm^2 dir?

- A) 40 B) 50 C) 60 D) 70 E) 80

10. ABCD paralelkenar
 $[AE] \cap [BD] = \{F\}$
 $|DE| = 2|EC|$
 $A(BCEF) = 11$ cm^2



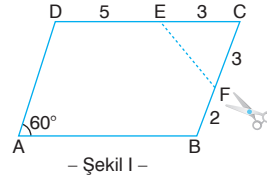
Buna göre, $A(ABCD)$ kaç cm^2 dir?

- A) 20 B) 30 C) 40 D) 50 E) 60

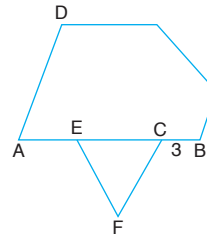
11. ABCD paralelkenarında $E \in [AB]$, $|AE| = 2|EB|$ ve $F \in [BC]$, $|BF| = 2|FC|$ olacak şekilde noktalar seçiliyor. ABCD paralelkenarının alanı 54 cm^2 olduğuna göre, $A(\widehat{EBF})$ kaç cm^2 dir?

- A) 4 B) 6 C) 8 D) 9 E) 12

12.



- Şekil I -



- Şekil II -

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

$$|FB| = 2$$
 cm

$$|DE| = 5$$
 cm

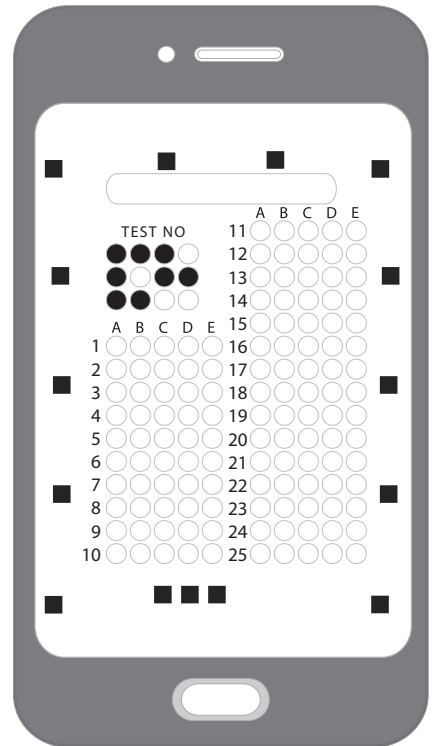
$$|EC| = |CF| = 3$$
 cm

$$|CB| = 3$$
 cm

Şekil I deki ABCD paralelkenarı $[EF]$ boyunca kesiliyor ve şekil II deki $[AB]$ kenarı üzerine yaşırtılıyor.

Buna göre, D ve F noktaları arasındaki uzaklık kaç cm dir?

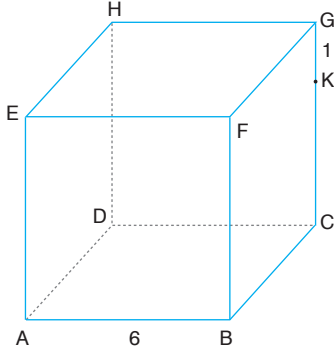
- A) 7 B) 8 C) 9 D) 10 E) 11



6. ABCDEFGH küp

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

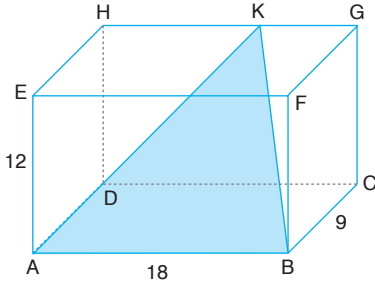
$$|GK| = 1 \text{ cm}$$



Buna göre, A dan K ya yüzeyden olmak şartıyla çizilebilecek en kısa çizgi kaç cm dir?

- A) 13 B) 14 C) 15 D) 16 E) 17

7.



ABCEFGH dikdörtgenler prizmasında

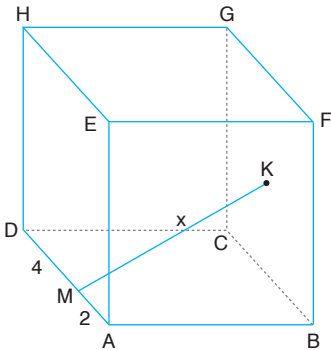
$$|AB| = 2|BC| = 18 \text{ cm}$$

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

Buna göre, $A(\widehat{AKB})$ kaç cm^2 dir?

- A) 108 B) 120 C) 135 D) 144 E) 145

8.



ABCEFGH küp

K noktası BCGF yüzeyinin ağırlık merkezi

$$|DM| = 2|MA| = 4 \text{ cm}$$

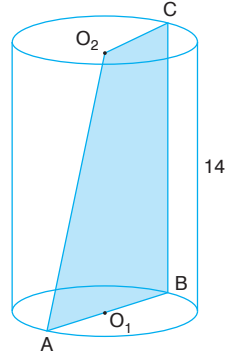
Buna göre, $|KM| = x$ kaç cm dir?

- A) $\sqrt{43}$ B) $2\sqrt{11}$ C) $3\sqrt{5}$ D) $\sqrt{46}$ E) $4\sqrt{3}$

9. Hacminin sayısal değeri, yanal alanının sayısal değerinin 4 katı olan dik silindirin yarıçapı kaç cm dir?

- A) 4 B) 6 C) 8 D) 9 E) 12

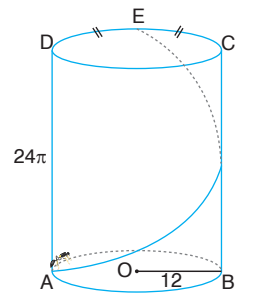
10. $ABCO_2$ dik yamuğunun alanı 84 cm^2



olduğuna göre, 14 cm yüksekliğindeki dik silindirin hacmi kaç $\pi \text{ cm}^3$ tür?

- A) 218 B) 224 C) 230 D) 236 E) 242

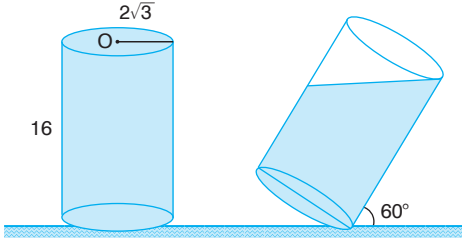
11. Şekildeki silindirde verilen bilgilere göre,



A noktasından hareket eden karıncanın yüzeyden giderek E noktasına kadar alacağı yol en az kaç cm dir?

- A) 30π B) 32π C) 34π D) 35π E) 36π

12.



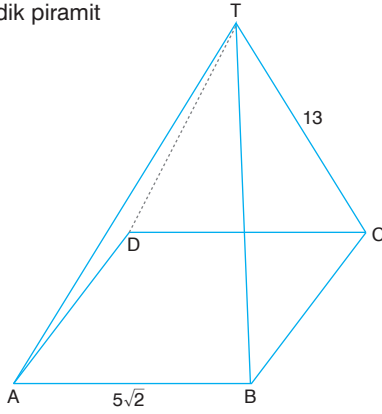
Taban yarıçapı $2\sqrt{3}$ cm ve yüksekliği 16 cm olan içi su ile dolu dik silindir, zeminle 60° lik açı yapacak şekilde eğildiğinde dökülen suyun hacmi kaç π cm³ tür?

- A) 20 B) 24 C) 28 D) 30 E) 32

13. (T, ABCD) kare dik piramit

$$|AB| = 5\sqrt{2} \text{ cm}$$

$$|TC| = 13 \text{ cm}$$



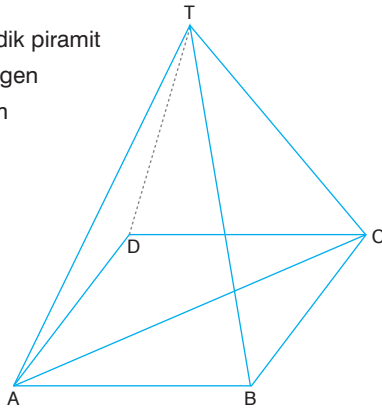
Buna göre, piramidin hacmi kaç cm³ tür?

- A) 160 B) 180 C) 200 D) 210 E) 240

14. (T, ABCD) kare dik piramit

TAC eşkenar üçgen

$$\widehat{C(TAC)} = 18 \text{ cm}$$



Buna göre, piramidin hacmi kaç cm³ tür?

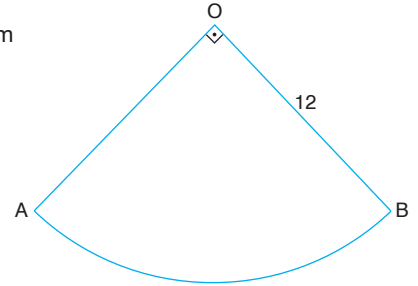
- A) $18\sqrt{3}$ B) $24\sqrt{3}$ C) $27\sqrt{3}$ D) $30\sqrt{3}$ E) $36\sqrt{3}$

15. Bir ayrıtı 12 cm olan düzgün dörtyüzlünün hacmi kaç cm³ tür?

- A) $108\sqrt{2}$ B) $124\sqrt{2}$ C) $136\sqrt{2}$
D) $144\sqrt{2}$ E) $156\sqrt{2}$

16. $[AO] \perp [OB]$

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

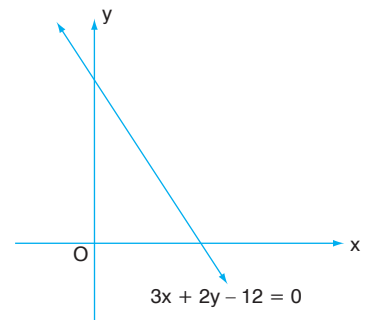


O merkezli çeyrek daire diliminin sarılması ile oluşan dik koninin hacmi kaç π cm³ tür?

- A) $9\sqrt{15}$ B) $10\sqrt{15}$ C) $12\sqrt{15}$
D) $15\sqrt{15}$ E) $18\sqrt{15}$

17. Dik koordinat sisteminde

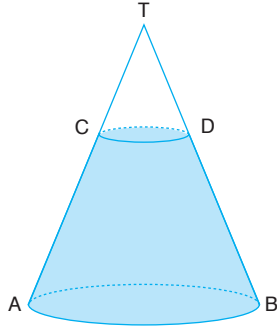
$$3x + 2y - 12 = 0$$



doğrusunun y eksenini etrafında 180° döndürülmesiyle oluşan şeklin hacmi kaç π cm³ tür?

- A) 14 B) 15 C) 16 D) 18 E) 20

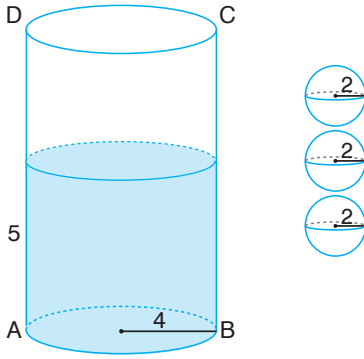
18. Şekildeki dairesel koni tabanına paralel bir düzlemle kesiliyor.
 $4|TD| = 3|BD|$



Buna göre, küçük koninin hacminin kesik koni hacmine oranı kaçtır?

- A) $\frac{16}{119}$ B) $\frac{25}{119}$ C) $\frac{27}{119}$ D) $\frac{25}{316}$ E) $\frac{27}{316}$

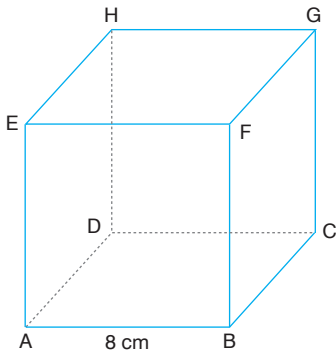
19.



Taban yarıçapı 4 cm olan dik silindir içinde 5 cm yüksekliğinde su vardır. Küre biçiminde 2 cm yarıçaplı buz küreler suyun içinde eritildiğine göre, suyun yeni yüksekliği kaç cm dir?

- A) 6 B) 7 C) 8 D) 9 E) 10

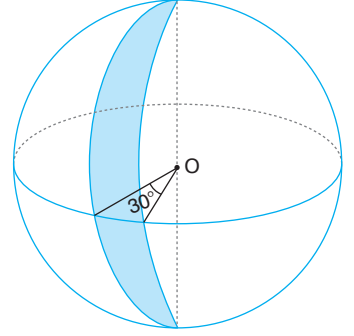
20.



Şekildeki bir ayrıtı 8 cm olan küpü içine alan en küçük kürenin alanı kaç $\pi \text{ cm}^2$ dir?

- A) 172 B) 176 C) 186 D) 192 E) 204

21. O merkezli
 12 cm yarıçaplı
 küreden 30° lik
 dilim çıkarılıyor.



Buna göre, çıkarılan dilimin hacmi kaç $\pi \text{ cm}^3$ tür?

- A) 192 B) 200 C) 204 D) 206 E) 212

