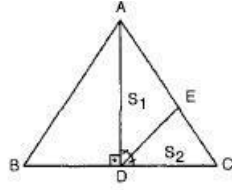
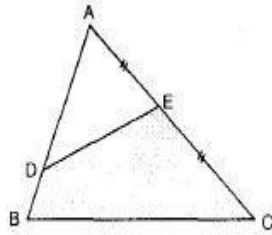


1. Şekilde ABC eşkenar üçgen, $[AD] \perp [BC]$ ve $[DE]$ açıortaydır.
Alan $\triangle ADE = S_1$ ve Alan $\triangle EDC = S_2$ olduğuna göre $\frac{S_1}{S_2}$ oranı nedir?



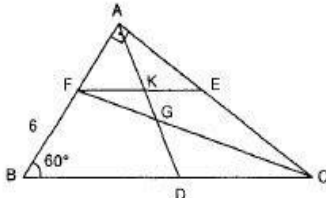
- A) $\sqrt{3}$ B) 3 C) $\sqrt{2}$ D) 2 E) 3

3. Şekildeki ABC üçgeninde $|EA| = |EC|$, $\frac{|DB|}{|DA|} = \frac{1}{3}$ ve taralı bölgenin alanı 20 cm^2 olduğuna göre ABC üçgeninin alanı kaç cm^2 'dir?



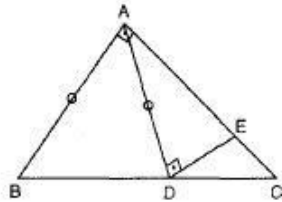
- A) 40 B) 38 C) 36 D) 34 E) 32

5.



- ABC dik üçgeninde D, E, F kenarların orta noktalarıdır, $m(\hat{A}) = 60^\circ$ ve $|BF| = 6$ ise $|EF| + |KG|$ toplamı kaç birimdir?
A) 18 B) 16 C) 15 D) 14 E) 12

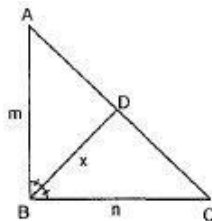
7. ABC üçgeninde $[AB] \perp [AC]$, $[AD] \perp [DE]$ ve $|AB| = |AD|$ ise $\frac{|DE|}{|EC|}$ oranı nedir?



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

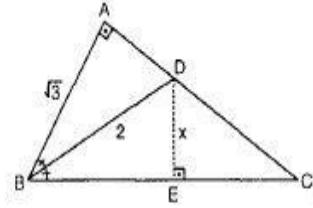
9. ABC üçgeninde

- $m(\hat{A}) = m(\hat{C}) = 45^\circ$,
 $|AB| = m$,
 $|BC| = n$ ve
 $\frac{1}{m} + \frac{1}{n} = \frac{1}{4}$ olduğuna göre $|BD| = x$ nedir?



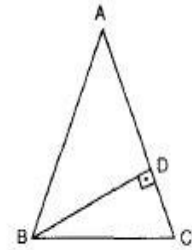
- A) 4 B) 6 C) 8 D) $4\sqrt{2}$ E) $6\sqrt{2}$

2. ABC dik üçgeninde $[BD]$ açıortaydır. $[DE] \perp [BC]$
 $|AB| = \sqrt{3} \text{ cm}$,
 $|BD| = 2 \text{ cm}$ ise $|DE| = x$ kaç cm 'dir?



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

4. Şekilde, $|AB| = |AC| = 2|BC|$ dir. $|BC| = 4 \text{ cm}$ ise $|CD|$ kaç cm 'dir?



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

6. Şekildeki ABC üçgeninde

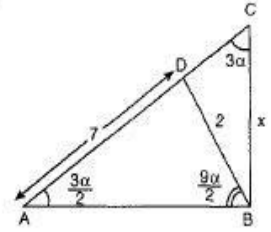
$$m(\hat{A}) = \frac{3\alpha}{2}$$

$$m(\hat{C}) = 3\alpha$$

$$m(\hat{A}) = \frac{9\alpha}{2}$$

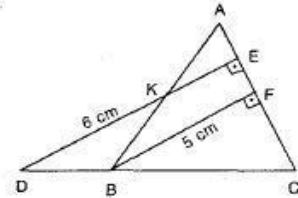
$$|AD| = 7 \text{ cm}$$
 ve

$$|BD| = 2 \text{ cm}$$
 ise $|BC| = x$ kaç cm 'dir?



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

8. Şekilde $|BA| = |BC|$, $[DE] \perp [AC]$, $[BF] \perp [AC]$, $|DK| = 6 \text{ cm}$ ve $|BF| = 5 \text{ cm}$ ise $|KE|$ kaç cm 'dir?



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

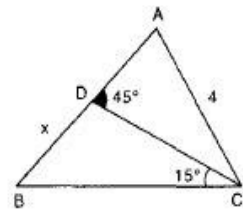
10. Şekildeki ABC üçgeninde $|BA| = |BC|$

$$m(\hat{A}) = 45^\circ$$

$$m(\hat{C}) = 15^\circ$$

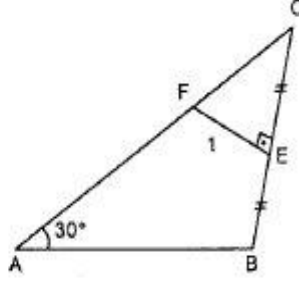
$$\text{ve } |AC| = 4 \text{ cm}$$
 ise

$$|BD| = x$$
 kaç cm 'dir?



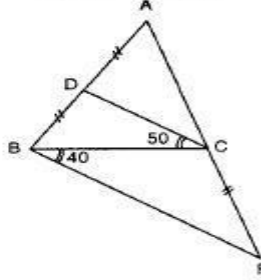
- A) $\sqrt{2}$ B) $\sqrt{3}$ C) $\sqrt{6}$ D) $2\sqrt{2}$ E) $2\sqrt{6}$

11. Şekilde
 $IABI = IBCI$,
 $ICEI = IBEI$,
 $m(\hat{E}) = 90^\circ$ ve
 $IEFI = 1$ cm
olduğuna göre $IACI$
kaç cm'dir?



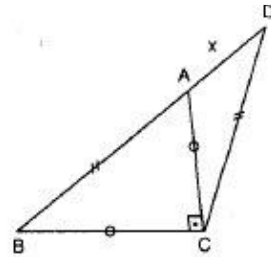
- A) 2 B) 3 C) 4 D) 6 E) 9

13. Şekilde
 $m(\hat{CBF}) = 40^\circ$,
 $m(\hat{BCD}) = 50^\circ$,
 $IABI = IACI = 4$ cm ve
 $IADI = IDBI = ICFI$ ise
 ΔABC kaç cm²'dir?



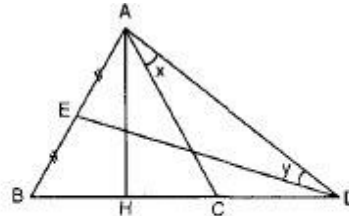
- A) $2\sqrt{3}$ B) $4\sqrt{3}$ C) $6\sqrt{3}$
D) $8\sqrt{3}$ E) $\sqrt{15}$

15. Şekildeki ΔDBC
üçgeninde
 $[AC] \perp [BC]$,
 $IACI = IBCI$ ve
 $IABI = IDCI = 2$ birim
ise $IADI = x$ kaç bi-
rimdir?



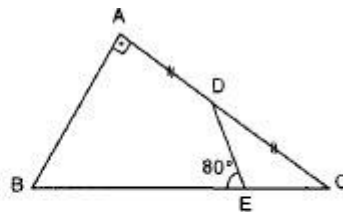
- A) $\sqrt{3}$ B) 2 C) $\sqrt{3} - 1$
D) $2 - \sqrt{3}$ E) $1 + \sqrt{3}$

17. ΔABC eşkenar,
 $[AH]$ yükseklik
 $IAEI = IEBI$,
 $IAHI = IDCI$
 $x + y$ kaç dere-
cedir?



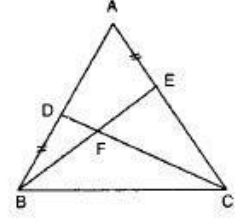
- A) 30 B) 40 C) 45 D) 60 E) 75

19. Şekilde
 $IADI = IDCI$,
 $IBEI = 3.IECI$,
 $m(\hat{A}) = 90^\circ$ ve
 $m(\hat{BED}) = 80^\circ$
 $m(\hat{ABC})$ kaç derecedir?



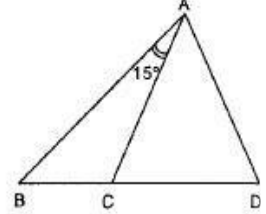
- A) 60 B) 50 C) 45 D) 40 E) 30

12. Şekildeki
 ΔABC eşkenar üçgeninde
 $IAEI = IBDI$,
 $IBFI = 3$ birim,
 $IFCI = 5$ birim
olduğuna göre ΔABC
üçgeninin çevresi kaç
birimdir?



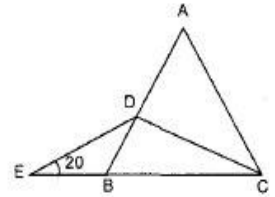
- A) 12 B) 18 C) 21
D) $24\sqrt{2}$ E) $24\sqrt{3}$

14. Şekilde ΔACD eşkenar
üçgen $IACI = 4$ cm
 $m(\hat{BAC}) = 15^\circ$ ise
 ΔABC kaç cm²'dir?



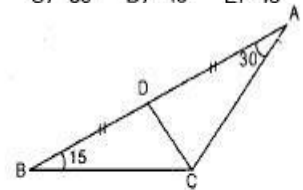
- A) 4 B) $2(\sqrt{3} - 1)$ C) $2\sqrt{3} - 2$
D) $2(3 - \sqrt{3})$ E) $4\sqrt{3}$

16. ΔABC eşkenar
üçgen,
 $IEBI = IADI$ ve
 $m(\hat{E}) = 20^\circ$ ise
 $m(\hat{ECD})$ kaç dere-
cedir?



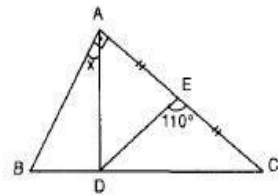
- A) 10 B) 20 C) 30 D) 40 E) 45

18. ΔABC de
 $m(\hat{BAC}) = 30^\circ$
 $m(\hat{ABC}) = 15^\circ$
ve $IBDI = IDAI$
ise $m(\hat{BCD})$ kaç derecedir?



- A) 15 B) 20 C) 25 D) 30 E) 45

20. ΔABC de
 $[AB] \perp [AC]$,
 $IAEI = IECI$,
 $IBCI = 4.IBDI$ ve
 $m(\hat{DEC}) = 110^\circ$
ise $m(\hat{BAD})$ kaç derecedir?



- A) 10 B) 20 C) 25 D) 30 E) 40