

**37-Mavzu. Uchburchaklar**

1. Tomonlari  $x$ ,  $(x - 4)$ ,  $(x + 1)$  bo‘lgan uchburchak perimetrini toping.  
A)  $3x + 1$  B)  $3x - 1$  C)  $3x - 3$  D)  $3x - 5$
2. Uchburchakning tashqi burchagi  $120^\circ$  bo‘lib, unga qo‘shni bo‘lmagan ichki burchaklarining biri ikkinchisidan  $40^\circ$  ga farq qiladi. Uchburchakning ichki burchaklarini hisoblang.  
A)  $60^\circ, 35^\circ, 85^\circ$  B)  $40^\circ, 50^\circ, 90^\circ$  C)  $30^\circ, 60^\circ, 90^\circ$  D)  $40^\circ, 60^\circ, 80^\circ$
3. Teng yonli uchburchak uchidagi burchagi  $50^\circ$ . Uning yon tomoniga tushirilgan balandligi va asosi orasidagi burchakni toping.  
A)  $40^\circ$  B)  $15^\circ$  C)  $50^\circ$  D)  $25^\circ$
4. Teng yonli uchburchak uchidagi burchagi  $70^\circ$ . Yon tomonlariga o‘tkazilgan bissektrisalari orasidagi o‘tkir burchakni toping.  
A)  $60^\circ$  B)  $70^\circ$  C)  $80^\circ$  D)  $55^\circ$
5. Teng yonli uchburchakning uchidagi burchagi  $40^\circ$ . Asosidagi burchaklarning biridan balandlik, ikkinchisidan bissektrisa o‘tkazilgan. Ular orasidagi burchakni toping.  
A)  $40^\circ$  B)  $45^\circ$  C)  $50^\circ$  D)  $55^\circ$
6. Agar ABC uchburchakning burchaklari  $\angle A : \angle B : \angle C = 2 : 3 : 4$  shartlarni qanoatlantirsa, uchburchakning qaysi tomoni eng katta bo‘ladi?  
A) AC B) aniqlab bo‘lmaydi C) AB D) BC
7. ABC uchburchakning B va C burchaklari bissektrisalari  $128^\circ$  burchak ostida kesishadi. A burchakning qiymatini toping.  
A)  $104^\circ$  B)  $76^\circ$  C)  $72^\circ$  D)  $66^\circ$
8. ABC uchburchakda A va B burchaklarning bissektrissalari kesishishidan hosil bo‘lgan kichik burchak  $70^\circ$  bo‘lsa, bu uchburchakning C burchagi necha gradus?  
A)  $40^\circ$  B)  $70^\circ$  C)  $80^\circ$  D)  $30^\circ$
9. ABC uchburchakda AD bissektrissa. ACB burchak  $80^\circ$ , ADB burchak  $120^\circ$  bo‘lsa, ABC burchakning qiymatini toping.  
A)  $10^\circ$  B)  $20^\circ$  C)  $30^\circ$  D)  $40^\circ$

10. Teng yonli uchburchakning perimetri 90 m bo‘lib, yon tomoni asosidan 4 marta katta. Uchburchakning asosini (m) toping.  
A) 10 B) 40 C) 20 D) 18
11. ABC uchburchakning CD medianasi ACD muntazam uchburchak hosil qilsa,  $\angle DCB$  ni toping.  
A)  $50^\circ$  B)  $30^\circ$  C)  $40^\circ$  D)  $45^\circ$
12. Uchburchak tomonlari 2, 3, 4 sonlariga proporsional bo‘lib, perimetri 36 ga teng. Shu uchburchak tomonlarini toping.  
A) 2, 3, 4 B) 8, 12, 16 C) 10, 15, 20 D) 12, 12, 12
13. Simni bukib, yon tomoni 10 ga va asosi 7 ga teng bo‘lgan teng yonli uchburchak hosil qilish mumkin. Shu simni bukish yordamida teng tomonli uchburchak yasalsashu teng tomonli uchburchakning tomoni nechaga teng bo‘ladi?  
A) 7 B) 8 C) 9 D) 10
14. Perimetri 24 bo‘lgan uchburchakning balandligi uni perimetrlari 14 va 18 bo‘lgan ikki uchburchakka ajratadi. Berilgan uchburchakning balandligini toping.  
A) 10 B) 8 C) 6 D) 4
15. Uchburchakning o‘rta chiziqlari uzunliklari 6, 7 va 8 ga teng bo‘lsa, perimetrini toping.  
A) 21 B) 30 C) 42 D) 50
16. Uchburchakning tomonlari 4 cm, 6 cm, 8 cm ga teng. Shu uchburchakning o‘rta chiziqlarini (cm) toping.  
A) 1;2;3 B) 4;5;6 C) 2;3;4 D) 3;4;5
17. O‘rta chiziqlari nisbati 3:5:7 kabi bo‘lgan uchburchakning perimetri 150 ga teng. Uchburchakning eng katta o‘rta chizig‘ini toping.  
A) 25 B) 35 C) 50 D) 70
18. ABC uchburchakda  $AB=AC=12$ . Perimetri  $P=32$ . AD balandlik o‘tkazilgan. CD ni toping;  
A) 6 B) 8 C) 3 D) 4

19. Teng yonli uchburchakning asosi yon tomonidan 2 cm ga qisqa. Agar uchburchakning perimetri 19 cm bo‘lsa, asosining uzunligi necha santimetr ga teng?  
A) 4 B) 5 C) 6 D) 7
20. ABC uchburchakning burchaklari 2:3:1 nisbatda. Agar eng kichik tomoni 5 cm bo‘lsa, eng katta tomoni uzunligini (cm) toping.  
A) 8 B) 10 C)  $5\sqrt{3}$  D)  $5\sqrt{2}$
21. Agar ABC uchburchakning tomonlari  $AB:AC:BC = 5:3:4$  nisbatda bo‘lsa, uchburchakning qaysi burchagi eng katta bo‘ladi?  
A)  $\angle ABC$  B) aniqlab bo‘lmaydi C)  $\angle ACB$  D)  $\angle BAC$
22.  $a$  ning qanday qiymatlarida uzunliklari mos ravishda  $a + 2$ ; 4 va  $2a - 1$  bo‘lgan kesmalardan uchburchak yasash mumkin?  
A)  $1 < a < 7$  B)  $0 < a < 5$  C)  $1 < a < 8$  D)  $0 < a < 7$
23. Uchburchakning tomonlari 24, 9 va  $x$  ga teng.  $x$  soni qaysi oraliqqa tegishli bo‘ladi?  
A) (0; 33) B) (15; 33) C) (8; 25) D) (24; 33)
24. Perimetri 30 bo‘lgan uchburchakning bissektrisasi uni perimetrlari 16 va 24 bo‘lgan ikkita uchburchakka ajratadi. Berilgan uchburchakning bissektrisasini toping.  
A) 6 B) 8 C) 5 D) 7
25. Perimetri 30 ga teng bo‘lgan uchburchakning balandligi uni perimetrlari 18 va 24 ga teng bo‘lgan ikkita uchburchakka ajratsa, shu balandlikning uzunligini toping.  
A) 4 B) 8 C) 6 D) 12
26. Uchburchakning ikki tomoni 0,8 va 1,9 ga teng. Uning uchinchi tomoni uzunligi butun son. Shu tomonni toping.  
A) 1 B) 2 C) 3 D) 4
27. Uchburchakning ikkita tomoni 0,5 va 7,9 ga teng. Uchinchi tomonning uzunligi butun son ekanligini bilgan holda shu tomonni toping.  
A) 8 B) 7 C) 6 D) 5

28. Uchburchak ikki burchagi yigʻindisining sinusi  $\frac{1}{3}$  boʻlsa, uchinchi burchagining sinusini toping.  
A)  $\frac{2}{3}$    B)  $\frac{1}{3}$    C)  $\frac{1}{4}$    D)  $\frac{3}{4}$
29. Uchburchak ikkita burchagi yigʻindisining kosinusi  $\frac{1}{2}$  ga teng. Uchinchi burchagining kosinusini toping.  
A)  $\frac{2}{3}$    B)  $\frac{1}{3}$    C)  $-\frac{1}{2}$    D)  $\frac{1}{2}$
30. ABC uchburchakning A va C burchaklari  $20^\circ$  va  $40^\circ$  ga, B burchakning bissektrisasi 2 ga teng boʻsa,  $AC - AB$  ni toping.  
A) 1   B) 2   C) 2,5   D) 3

**Kalitlar**

1.	C	16.	C
2.	D	17.	B
3.	D	18.	D
4.	B	19.	B
5.	D	20.	B
6.	C	21.	C
7.	B	22.	A
8.	A	23.	B
9.	B	24.	C
10.	A	25.	C
11.	B	26.	B
12.	B	27.	A
13.	C	28.	B
14.	D	29.	C
15.	C	30.	B