10-sinf. Matematika. I chorak

1. Birorta ham elementga ega bo`lmagan to`plam
2. Chekli to`plam B. Bo`sh to`plam C. Qism to`plam D. cheksiz to`plam
3. A to`plamning hamma elementi B to`plamga tegishli bo`lsa nima bo`ladi
4. Chekli to`plam B. Bo`sh to`plam C. Qism to`plam D. cheksiz to`plam
5. A va B to`plamning birlashmasi qanday belgilanadi
6. B. C. D.
7. , , ni toping
8. B. C. D.
9. Mulohoza gapning qaysi turiga bog`liq?
10. Buyruq gap B. So`roq gap C. Undov gap D. Darak gap
11. A⋀B⋁C- ni toping

A. True B. False C. D. 2

7.

 ,

1. B. C. D.
2. Dizyunksiya qanday belgilanadi?
3. V B. C. D.
4. (p nima deyiladi
5. Konyunksiya B. Dizyunksiya C. Implikatsiya D. Ekvivalensiya
6. p mulohozaning konversiyasi nima?
7. B. ¬ C. ¬ D. ¬p⇒q
8. Umumiylik kvantori qanday belgilanadi
9. B. C. D.
10. Ko`pchilik tomonidan qabul qilingan an’anaviy fikrga zid mulohoza
11. Predikat B. Paradoks C. Kvantor D. Sofizm
12. 8000000 so`m yiliga 7% stavkasida 18 oyga olingan bo`lsa, foiz to`lovini hisoblang
13. 840000 so`m B. 560000 so`m C. 56000 so`m D. 84000 so`m
14. 1000 AQSH dollori murakkab foiz stavkasi yillik 6% bilan 2 yilga olingan bo`lsa, daromad qancha bo`ladi?
15. 1020$ B. 1123$ C. 1030$ D. 1120$
16. Mijoz bankka 5000$ oylik foiz stavkasi 8% bilan qo`ydi 24000$ foyda olish uchun qancha vaqt kerak?
17. 4 yil B. 15 yil C. 6 yil D. 5 yil
18. Ataylab chiqarilgan noto`g`ri xulosa
19. Paradoks B. Kvantor C. Sofizm D. Predikat
20. Mulohozalarda o`zgaruvchilar o`rniga aniq qiymat qo`yilsa, hosil bo`ladigan mulohoza
21. Paradoks B. Kvantor C. Sofizm D. Predikat
22. Fikrda bir butun ko`plik deb to`plamga ta’rif bergan matematik kim?
23. Beruniy B. Kantor C. Qobilov D. Pifagor
24. 4 soni D to`plam elementi qanday yoziladi
25. B. C. D.
26. P= Q=
27. B. C. D.

BOC uchburchak burchakalrini toping

1. 480, 480, 840
2. 240, 1320, 240
3. 420, 900, 480
4. 480, 320, 200
5. Uchburchakning uchlari radiuslari 6 sm. 7 sm, 8 sm bo`lgan va juft-jufti bilan urinadigan uchta aylana markazlarida yotibdi. Bu uchburchak perimetrini toping
6. 28 sm
7. 29 sm
8. 27 sm
9. 42 sm
10. ni toping

 1) 2) 3) 4)



1. 1 B. 2 C. 3 D. 4
2. to`plamning nechta elementi bor



1. 25 ta
2. 24 ta
3. 28 ta
4. 21 ta



1. to`plamning elementlari sonini toping
2. 58 va 4
3. 45 va 13
4. 57 va 4
5. 46 va 12

10-sinf. Matematika . II chorak

|  |  |
| --- | --- |
| 1.  | Teng kuchli tenglamalarni ko‘rsating: 1) 10*x*=8; 2) 6*x*−4=*x*; 3) *x2*+2*x*+18=0. A)1 va 3; B) 2 va 3; C) 1 va 2; D) hammasi.  |
| 2.  | Tenglamani katta ildizini toping: (*x*−5)(*x*+4)(*x−*11)=0. A)−4; B) 5; C) 16; D)11.  |
| 3.  | Bikvadrat tenglamaning ildizlari yig‘indisini toping: 3*x4*+8*x2*−11=0 A) 1; B) −1; C) 0; D) 11/3.  |
| 4.  | Tenglamalar sistemasining nechta yechimi bor? A) 1; B) 2; C) 3; D) 4.  |
| 5.  | Tenglamani yeching:.=7 A) 2; B) 4; C) 6; D) 8.  |
| 6.  | Tenglamalar sistemasining nechta yechimi bor? A) 1; B) 2; C) 3; D) 4.  |
| 7.  | Tekislikda *A*(3;1) va *B*(7;3) nuqtalardan teng uzoqlikda joylashgan *C*(5;*x*) nuqtani toping. nuqtani toping;A) (5;2); B) (5;3); C) (4;2); D) (4;3).  |
| 8.  | Tenglamani yeching 3∙5x+3−5x+2−2∙5x+1=68. A) 1; B) 2; C) −1; D) 0.  |
| 9.  | Tenglamaning butun ildizlarini toping A) 1; B) −1; C) 2; D) 1 va −1.  |
| 10.  | Qaysidir davlat aholisi soni yiliga 3% kamaysa necha yildan so‘ng 20% kamayadikamakkamayadi? A) 6; B) 2; C) 8; D) 4.  |
| 11  | Tengsizlikni yeching: (*x2*+6*x*−7)(*x2*+*x*+1)⩽0. A) [−7;1]; B) [−7;−1]; C) [7;−1]; D) [7;1].  |
| 12.  | Tengsizlikni nechta butun yechimi bor? |*x−*2| ⩽5. A) 10; B) 11; C) 8; D) 9.  |
| 13.  | Tengsizlikni yeching: |4*x−*1| ⩽−2. A) [−7;1]; B) [−7;−1]; C) [7;−1]; D) yechimi yo‘q.  |
| 14.  | Tengsizlikni nechta butun yechimi bor? 1. 3; B) 4; C) 5; D) 6.
 |

 15. Radiusi 3 sm ga teng shar sirtini yuzini toping;

 A) B) C) D)

 16. Fazoning ixtiyoriy nuqtasidan berilgan tekislikka perpendikulyar nechta to`g`ri chiziq

 o`tkazish mumkin ?

1. Cheksiz ko`p B) Bitta C) Ikkita D) Uchta

 17. Uchinchi tekislikka parallel ikki tekislik o`zaro qanday joylashadi?

 A) Perpendikular B) Parallel C) Ayqash D) Ustma-ust

 18. Silindrning to`la sirti formulasini toping

1. B) C)

D)

 19. Quyidagi burchaklarning qaysilari qo`shni bo`lishi mumkin?

 1) 180 2) 720 3) 1280 4) 620 5) 280 6)1080 7) 380

 A) 1 va 2 B) 2 va 6 C) 3 va 4 D) 2 va 5

 20. Agar teng yonli uchburchak burchaklari 3:4:3 nisbatda bo`lsa, uning uchuning bissektrisasi

 va yon tomomni orasidagi burchakni toping

1. 180 B) 720 C) 360 D) 600

21. 

Yuqoridagi shakllarning qaysi birining to`la sirtining yuzi   ga teng

1. Silindr B) Shar C) Konus D) Teng emas

 22 Quyidagi shakllarning qaysilari ko`pyoq bo`ladi?



1. a,c,e,f B) c,e C) a,c,e D) a,c,d,e,f

 23. Bo`sh katakning qiymatini toping



1. 7435,27$ B) 7556,27$ C) 7557,87$ D) 7559,27$

 24. Kesimida fazoviy to`rtburchak hosil bo`lgan shakllar qaysilar



1. b,c B) b,c,e C) a,b,c,e D) a,b,e,f

25. Shaklning to`la sirtini toping



10-sinf. Matematika. III chorak.

1. Agar munosabatda birinchi koordinatasi teng bo`lgan ikkita turli nuqta mavjud bo`lmasa, bu munosabat …. deyiladi
2. Qiymat B) Argument C) Funksiya D) To`plam
3. Quyidagi munosabatlardan qaysilari funksiya bo`ladi
4. 1 va 2 B) 2 va 3 C) 2 va 4 D) 1 va 4
5. Agar bo`lsa ni toping
6. 3 B) 0 C) 2 D) 16
7. parabolaning uchini toping
8. (-3,-5) B) (3,5) C) (-3,5) D) (3,-5)
9. y=(x-2)(x-6) parabolaning simmetriya o`qini toping
10. x=-4 B) x=4 C) x=3 D) x=0
11. 2100 ni radianda ifodalang
12. B) C) D)
13. funksiyaning davrini aniqlang
14. 3600 B) 7200 C) 1800 D) 900
15. ni hisobalng

 B) C)- D)

1. tenglamani yeching
2. B) C) D)
3. parametrik ko`rinishda berilgan funksiya grafigi qanday chiziq bo`ladi?
4. Parabola B) To`g`ri chiziq C) Ellips D) Giperbola
5. Fazoda bitta tekislikda yotmaydigan to`g`ri chiziqlar ….. deyiladi.
6. Ayqash to`g`ri chiziqlar. B) Parallel to`g`ri chiziqlar C) Perpendikular to`g`ri chiziqlar

D) kesishuvchi to`g`ri chiziqlar

1. a va b to`g`ri chiziqlar bitta tekislikda yotadi. Bu to`g`ri chiziqlarning mumkin bo`lgan o`zaro joylashishini ko`rsating

 1) a va b parallel; 2) a va b kesishadi; 3) a va b kesishmaydi; 4) a va b ayqash;

 5) a va b parallel emas.

 A) 1,2,4 B) 2,3,5 C) 1,2,3,5 D) hammasi

 13. To‘g‘ri tasdiqni tanlang:

1. Fazoda to‘g‘ri chiziqda yotmagan nuqtadan bu to‘g‘ri chiziqqa parallel o`tkazish mumkin emas;
2. uchinchi to‘g‘ri chiziqqa parallel to‘g‘ri chiziqlar bitta nuqtada kesishadi;
3. agar to‘g‘ri chiziqning ikki nuqtasi tekislikka tegishli bo‘lsa, to‘gri chiziqning o`zi ham tekislikka tegishli bo`ladi;
4. to‘g‘ri chiziq va unda yotmagan nuqtadan ikkita har xil tekislik o‘tkazish mumkin;

14.Qaysi biri katta?

A) B) C) Bular teng

15. Agar y=sin bx b>0 uchun funksiyaning davri 21600 bo`lsa, b ni toping

A) 6 B) 1/6 C) 4 D) 1/5

16. .

A) B) 16 C) -4 D) 4

17. y=-3x2+4x-5 parabolaning simmetriya o`qini toping

A) B) C) D)

18. y= funksiyaning aniqlanish sohasini toping

A) B) C) D)

19. ni hisoblang

A) B) C) D)

20. Tengsizlikni yeching:

A) B) C) D)

21. Quyidagilarning qaysilari funksiya bo`ladi?



A) a,b,c,e ,g B) a,b,g C) b,c,e D) a,b,c,e,g,h

22. Funksiyaning o`sish oralig`ini toping

1. (1;5)
2. (-1;5)
3. (-1;2)
4. (1;2)

23 ABCuchburchak tekislikni B1 va C1 nuqtalarda kesib o‘tadi (4- rasm). Agar

AB1: BB1 =3:2, BC =15 sm, BCllB1C1 bo‘lsa, B1C1 kesmaning uzunligini toping.



. A) 6

1. 9
2. 12
3. 8

24. Berilgan parallelepipedning berilgan yoqlarigdan qaysi biri ABCD yog`iga parallel bo`ladi?



1. ABB1A1
2. CDD1C1
3. B1C1CB
4. A1B1C1D1

25. Qaysi kesmalar proporsional



1. AB:BC=AB:BC2
2. AB:BC=A1B1:B1C1
3. AB:BC=AA2:A2A1
4. AB:BC=C2C:CC1

10-sinf. Matematika

|  |  |
| --- | --- |
|  | Diagonallari 10 va 36 bo`lgan rombning yuzini toping |
|  |  |
|  | A)360 B)180 C)720 D)160  |
|  |  |
|  |  geometrik progressiyada  va .  ni toping. |
|  |  |
|  | A) B) C) D)  |
|  |  |
|  | Yig`indini toping: (3+7i)+(-5+4i)=. |
|  |  |
|  | A)-3+11i B)4-2i C)2+11i D)-2+11i |
|  |  |
|  |  tenglamani yeching. |
|  |  |
|  | A) B) C) D)  |
|  |  |
|  |  tengsizlikni yeching. |
|  |  |
|  | A) B) C)D)  |
|  |  |
|  | Birinichi kuni ish normasining  qismi bajarildi. Ikkinchi kuni birinchi kunda bajarilgan ishning  qismicha ko’p ish bajarildi. Shu ikki kunda qancha ish normasi bajarilgan? |
|  |  |
|  | A) B) C) D)  |
|  |  |
|  | Bo`linmani toping:  |
|  |  |
|  | A) B)10 i C) D)12+4i  |
|  |  |
|  | Hisoblang: |
|  |  |
|  | A) 3 B) 2 C) D)  |
|  |  |
|  |  tengsizlikni yeching. |
|  |  |
|  | A) B) C) D)  |
|  |  |
|  | Agar kamayuvchi 16 ta va ayriluvchi 20 ta ortirilsa, ayirma qanday o’zgaradi? |
|  |  |
|  | A)4 ta kamayadi B)36 ta ortadiC)36 ta kamayadi D)4 ta ortadi |
|  |  |
|  |  tengsizlikni eching. |
|  |  |
|  | A) B) C)D)  |
|  |  |
|  | image170Teng yonli ABC va ADC uchburchakalr tekisliklari perpendikulyar. AC ularning umumiy asosi, BK kesma ABC uchburchak medianasi, agar BK=8, DK=15 bo`lsa, BD kesma uzunligini toping |
|  |  |
|  | A) B) 17 C) D)  |
|  |  |
|  | Agar proyeksiya yo`nalishi proyeksiyalash tekisligiga perpendikulyar bo`lsa, bunday parallel proyeksiyalash … proyeksiyalash deyiladi |
|  |  |
|  | A) teskari B) parallel C) gomotetiya D) ortogonal  |
|  |  |
|  |  ni hisoblang. A)3 B) C)2 D)  |
|  | Arifmetik progressiya uchun quyidagi formulalardan qaysilari to’g’ri? |
|  |  |
|  | A) B) C) hammasi D)  |
|  |  |
|  |  funktsiyaning aniqlanish sohasini toping. |
|  |  |
|  | A) B) C)D) E) |
|  |  |
|  |  ni qisqartiring. |
|  |  |
|  | A) B) C) D)  |
|  |  |
|  |  tengsizlik nechta butun yechimga ega? |
|  |  |
|  | A) B) C) D)5  |
|  |  |
|  |  tengsizlikni yeching. |
|  |  |
|  | A) B)  C) D)  |
|  |  |

1. tenglamani yeching
2. AB, AC, AD juft-jufti bilan perpendikulyar, AB=3 sm, BC=7 sm, AD=1,5 sm bo`lsa, CD-?
3. Quyidagi rasmlarning qaysilarida tekislik va og`ma orasidagi burchak to`g`ri belgilangan





1. SABCD ko`pyoqning tekislikdagi orthogonal proyeksiyasini toping



1) 2) 3) 4)



1. Funksiyaning davri nechaga teng



1. O`sish va kamayish oraliqlarini toping

Kalitlar

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| savol | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| javob | B | D | D | A | D | A | C | B | A | A | A | B | D | C | A | B | D | D |

19. 

20. x=2

21. 6,5

22. c,e

23. 4

24. 1200

25. x>1 o`suvchi, x<1 kamayuvchi