**11-sinf matematika**

1. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Karim 3minutda 213ta so`zni terib , 6ta imloviy xatoga yo`l qo`ydi. Karimning matn terish sifatini toping |
| \*0,0282  |
| 0,0321 |
| 0,623 |
| 0,3265 |

2.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 2

Agar a(2;1;3) va b(-1;x;2) vektorlar uzunligi teng bo’lsa ,x ni toping.

\*$\pm 3$

$$\pm 2$$

3

5

3. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Funksiya hosilasini toping: f(x)=5  |
| \*0 |
| X |
| 5 |
| 10 |

4.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 1

Markazi koordinatalar boshida , radiusi 5 ga teng bolgan sfera tenglamasini yozing.

\*x2+y2+z2=25

x2+y2+z2$\leq $25

x2+y2+z2$\geq $25

(x-1)2+(y-1)2+(z-1)2=25

5. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Funksiya hosilasini toping:  |
| \* |
|  |
| 12x+12 |
| 14x-12 |

6.Fan:Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 1

A(2;0;-3) va B(3;4;0) nuqtalar orasidagi masofani toping.

\*$\sqrt{26}$

$$\sqrt{24}$$

16

8

7.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

 Koordinatalar boshidan y=x2-4x+3 parabolaning simmetriya o’qigacha bo’lgan masofani toping.

\*2

1

1.5

2.5

8.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

 a̅(0;-4;2) va b̅(2;2;3) vektorlarning skalyar ko’paytmasini toping.

\*10

-2

14

-14

9.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

Agar B(-2;-7) nuqta y=kx2+8x +m parabolaning uchi bo’lsa, k va m ning qiymatini toping.

\*k=2, m=1

k=2, m=-1

k=-2, m=1

k=-2, m=-4

10.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 1

 p , q mulohazalarning dizyunksiyasi to’g’ri ko’rsatilgan qatorni troping

\*p˅q

p˄q

q˄p

q˅p

11.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

 Yuzi 9$π$ sm2 bo’lgan doirani o’rab turgan aylana uzunligini toping.

\*6$π$

12$π$

9$π$

3$π$

12.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailovqiyinchilikdarajasi1

Konversiya bilan teng kuchli mulohazani ko’rsating:

\*inversiya

Kontrapozitsiya

implikatsiya

ekvivalensiya

13.Fan: Geometriya. «B.Haydarov, E.Sariqov,A.Qo`chqorov» qiyinlik darajasi 3

 Ikkita o`xshash ko`pburchakning yuzlari mos ravishda 64sm2 va 576 sm2 bo`lib , birinchisining peremetri 112 sm bo`lsa ikkinchi ko`pburchak peremetrini toping?

\* 336 sm

 225 sm

 448sm

256sm

14.Fan: Algebra «SH. Alimov, O.R.Xolmuhammedov» qiyinlik darajasi 2

Parabola uchining koordinatalarini toping. 2+4

 \* (2;-4)

(0;4)

 (4;2)

(-4;2)

15.Fan: Algebra«SH. Alimov, O.R.Xolmuhammedov» qiyinlik darajasi 2

2 – 4 funksiyaning grafigi qaysi chorakda joylashgan?

\* I, II

I,IV

 II, III

 I, II, III ,IV

16.Fan: Algebra«SH. Alimov, O.R.Xolmuhammedov» qiyinlik darajasi 1

Tengsizlikni yeching. 

\* , <



<

 -1

17.Fan: Algebra «SH. Alimov, O.R.Xolmuhammedov» qiyinlik darajasi 3

 Agar 2+px+q parabola absissalar o`qini x=2 va 3 nuqtada kessa p va q larni toping?

\* p= -5 ,q=6

 p=5 , q= 6

 p=6 ,q= 5

 p= 1 , q= 0

18.Fan: Algebra«SH. Alimov, O.R.Xolmuhammedov» qiyinlik darajasi 1

 Agar a>0 bo`lsa u holda y= ax2 funksiya x0 bo`lganda qanday qiymat qabul qiladi?

\* musbat

manfiy

 0

qiymat qabul qilmaydi

19. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Moddiy nuqtaning berilgan t vaqtdagi tezligini hisoblang:  t=5 |
| \*80 |
| 70 |
| 60 |
| 50 |

20. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| sinx funksiyaning hosilasini toping |
| \*cosx |
| -sinx |
| tgx |
| -cosx |

21.Fan:Algebra M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 1

$\lim\_{x\to -1}(5-2x)$ limitni hisoblang

\*7

6

5

4

22.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 1

Uchlari A(1;2;3) , B(2;3;1), C(3;1;2) nuqtalarda bo’lgan uchburchakning perimetrini toping.

\*$3\sqrt{6}$

3

6

$$2\sqrt{3}$$

23. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
|  funksiya grafigiga x=1 abssisssali nuqtadao`tkazilgan urinma tenglamasini yozing |
| \*y=-x |
| y=x |
| y=2x |
| y=3x |

24.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 2

Agar ā(1;-4;0) , b̄(-4;8;0) bo’lsa, c̄=ā-b̄ vektorning koordinatalarini va uznligini toping.

\*(-3;4;0), 5

(5;4;0), 5

(3;-4;0), 4

(2;3;1), 4

25.Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
|  funksiya uchun y=2x-1 to`g`ri chiziqqa parallel bo`lgan urinma tenglamasini yozing |
| \*y=2x-2,25 |
| y=3x-2,2 |
| y=2x |
| y=2x+3 |

26.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 1

Markazi A(1;2;4) nuqtada, radiusi 3 ga teng bo’lgan shar tenglamasini yozing.

\*(x-1)2+(y-2)2+(z-4)2=9

(x-2)2+(y-4)2+(z-1)2=9

(x-1)2+(y-2)2+(z-4)2=6

(x-4)2+(y-2)2+(z-1)2=9

27. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
|  funksiya grafigiga x=4 abssissali nuqtada o`tkazilgan urinma tenglamasini tuzing  |
| \*y=35x+30 |
| y=35x |
| y=20x+20 |
| y=10x |

28. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Funksiyaning statsionar nuqtalarini toping  |
| \*x=-1, x=2 |
| x=3, x=2 |
| x=-1, x=3 |
| x=0, x=2 |

29.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 2

ABC uchburchak turioni aniqlang, uning yuzini toping: A(2;4;-1), B(1-1;1;2), C(5;1;2)

\*teng yonli , $S=9\sqrt{2}$

teng yonli , $S=3\sqrt{2}$

teng tomonli , $S=9$

turli tomonli , $S=9\sqrt{6}$

30. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Funksiyaning kamayish oraliqlarini toping |
| \*(-1;0) va (0;1) |
| (-2;0) va (0;1) |
| (-1;0) va (0;2) |
| (-3;0) va (0;1) |

31. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Funksiyaning lokal maksimum va lokal minimumlariga uning … deyiladi |
| \*ekstremumlari |
| O`sish oralig`i  |
| Kamayish oralig`i |
| hosilasi |

32.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 3

Uchlari A(4;0;1), B(5;-2;1), C(4;8;5) nuqtalarda bo’lgan uchburchakning AL bissektrisasi uzunligini toping

\*$\frac{4\sqrt{2}}{5}$

$$\frac{4\sqrt{2}}{3}$$

$$\frac{2\sqrt{3}}{5}$$

$$\frac{2\sqrt{3}}{3}$$

33. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Koordinatalar tekisliklari fazoni nechta oktantaga bo`ladi |
| \*8 |
| 5 |
| 4 |
| 6 |

34. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Fazoda …deb yo`naltirilgan kesmaga aytiladi |
| \*vektor |
| burchak |
| kollinear |
| simmetriya |

35. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Bitta tekislikda yoki parallel tekisliklarda yotuvchi vektorlar … vektorlar deb ataladi |
| \*Komplanar |
| kollinear |
| Ort |
| skalar |

36. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| a(1;2;0), b(1;-0,5;0) vektorlar orasidagi burchakni toping |
| \*90 |
| 60 |
| 30 |
| 180 |

37. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
|  ning qiymatini taqribiy hisoblang |
| \*1,9997 |
| 2,216 |
| 1,698 |
| 1,2 |

38.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 1

Markazi koordinatalar boshida , radiusi 5 ga teng bolgan sfera tenglamasini yozing.

\*x2+y2+z2=25

x2+y2+z2$\leq $25

x2+y2+z2$\geq $25

(x-1)2+(y-1)2+(z-1)2=25

39. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
|  ning taqribiy qiymatini hisoblang |
| \*0,484 |
| 0,56 |
| 0,8 |
| 168 |

40. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
|  ildizning qiymatini taqribiy hisoblang |
| \*1,01 |
| 2 |
| 1,2 |
| 1,1 |

41. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
|  funksiyaning [-4;2] oraliqdagi eng katta qiymatini toping |
| \*17  |
| 2 |
| 20 |
| 32 |

42.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

 Tenglamani yeching: $\left(\frac{2}{5}\right)^{3x-7}=\left(\frac{5}{2}\right)^{7x-3}$

\*x=1

x=3

x=-1

x=0

43.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

 Tenglama nechta yechimga ega: $\sqrt{x^{2}+5x+2}$=-3

\*yechimga ega emas

1

2

4

44.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 3

 $\sqrt[6]{x^{2}-2}=\sqrt[6]{x}$tenglamani yeching.

\*x=2

x=-2

x=-1

x=0

45.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

 Shar sirt yuzi formulasi

\*S=4$π$ r2

S=2$π$ r

S=4$π$ r

S=$π$ r2

46.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

 Oddiy foizlar formulasi

\*$I=\frac{Crn}{100}$

$$A=C\left(1+\frac{r}{100}\right)^{n}$$

$$A=C\left(1+\frac{c}{100}\right)^{n}$$

$$I=\frac{rn}{100}$$

47.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

 Murakkab foizlar formulasi.

\*$A=C\left(1+\frac{r}{100}\right)^{n}$

$$I=\frac{Crn}{100}$$

$$A=C\left(1+\frac{c}{100}\right)^{n}$$

$$I=\frac{rn}{100}$$

48.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailovqiyinchilikdarajasi 1

Tengsizlikni yeching: x+1>7-2x

\*x<2

x>-2

x>2

x<-2

49.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

9x+3x-6=84 tenglamani yeching.

\* x=2

x=9

x=-2

x=-10

50.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

Taqqoslang: a)  va b) 

\*a<b

a>b

a=b

2a=b

51.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 1

Ko’rsatkichli tenglama deb nimaga aytiladi?

\* O’zgaruvchisi darajada , qatnashgan tenglamaga ko’rsatkichli tenglama deyiladi

O’zgaruvchisi asosda qatnashgan tenglamaga ko’rsatkichli tenglama deyiladi

 O’zgaruvchisi manfiy bo’lgan tenglamaga ko’rsatkichli tenglama deyiladi

 O’zgaruvchisi musbat bo’lgan tenglamaga ko’rsatkichli tenglama deyiladi

52.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

 Tengsizliklar sistemasini yeching: 

\*







53.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

 Tenglamani yeching:

\*11

10

5

6

54.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

 Irratsional tengsizlikni yeching: 

\*





;

55.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 1

 a va b to'g'ri chiziqlar c to'g'ri chiziqqa parallel.a va b to’g’ri chiziqlar o’zaro qanday joylashishi mumkin?

\*parallel

perpendikular

kesishadi

kesishmaydi

56.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

Agar f(x)=2x+3 bo’lsa, f(-4) ni toping.

\*-5

-1

3

8

57.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

  funksiya uchun x ning qaday qiymatida G(x) mavjud emas?

\*x=4

x= - 4

 x=2

 x=-2

58.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 1

To’g’ri tasdiqni aniqlang:

\* fazoda to’g’ri chiziqda yotmagan nuqtadan unga parallel yagona to’g’ri chiziq o’tkazish mumkin;

 uchinchi to’g’ri chiziqqa parallel to’g’ri chiziqlar o’zaro kesishadi;

 agar ikki to’g’ri chiziq tekislikda yotsa,ular kesishadi;

to’g’ri chiziqdan va unda yotmagan nuqtadan ikkita turli tekislik o’tkazish mumkin;

59.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 2

k ning qanday qiymatida b̄(k-1;1;4) vektorning uzunligi $\sqrt{21}$ ga teng bo’ladi.

\*3;-1

1;3

1;2

-3;1

60.Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
|  funksiyaning [-4;2] oraliqdagi eng kichik qiymatini toping |
| \*-9 |
| -2 |
| -10 |
| 6 |

61.Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| cosx funksiyaning hosilasini toping |
| \*-sinx |
| cosx |
| sinx |
| tgx |

62.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 1

b̄(-4;8;2) bo’lsa, 2b̄ vektorning koordinatalari ni toping.

\*(-8;16;4)

(-2;4;1)

(8;-16;-4)

(2;-4;-1)

63. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Funksiya hosilasini toping f(x)=(2x+4)(3x+1) |
| \*12x+14 |
| 12x |
| 16x+14 |
| 16x-2 |

64. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| ni hisoblang |
| \*4 |
| 6 |
| 8 |
| 10 |

65. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Agar  va bo`lsa ,f(g(2)) ni toping |
| \*0 |
| 36 |
| 25 |
| 10 |

66.Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Agar  va bo`lsa ,f(g(-4)) ni toping |
| \*36 |
| 0 |
| 10 |
| 12 |

67.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 3

Uchlari A(4;0;1), B(5;-2;1), C(4;8;5) nuqtalarda bo’lgan uchburchakning AL bissektrisasi uzunligini toping

\*$\frac{4\sqrt{2}}{5}$

$$\frac{4\sqrt{2}}{3}$$

$$\frac{2\sqrt{3}}{5}$$

$$\frac{2\sqrt{3}}{3}$$

68. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Agar  va bo`lsa ,f(f(1)) ni toping |
| \*1 |
| 10 |
| 36 |
| 0 |

69. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| tgx funksiya hosilasini toping |
| \* |
| cosx |
| sinx |
| tgx |

70.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 2

Uchta nuqta berilgan : A(1;1;1), B(-1;0;1), C(0;1;1) . Shunday D(x;y;z) nuqtani topingki, A̅B̅ va C̅D̅̄ vektorlar teng bo’lsin.

\*D(-2;0;1)

D(2;0;-1)

D(0;1;1)

D(1;1;1)

71. Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 3

Mahsulotning narxi birinchi marta 25%, ikkinchi marta yangi bahosi 20% ga oshirildi.Mahsulotning oxirgi bahosi necha % kamaytirilsa, uning narxi dastlabki bahosiga teng bo’ladi?

\*33$\frac{1}{3}$

33$\frac{2}{3}$

33

33$\frac{1}{2}$

72. Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 3

A(-2;5) nuqtadan 5x-7y-4=0 to’g’ri chiziqqa parallel ravishda o’tuvchi to’g’ri chiziqning tenglamasini ko’rsating.

\*5x-7y+45=0

3x-4y+35=0

4x-5y+45=0

5x-7y-45=0

73.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 3

Soddalashtiring: $\sqrt{13+30\sqrt{2+\sqrt{9+4\sqrt{2}}}}$

\*5+3$\sqrt{2}$

5+2$\sqrt{3}$

5+$\sqrt{2}$

3+$\sqrt{2}$

74.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 1

Kvadratning tomoni 20$\sqrt{2}$ ga teng.Bu kvadratga ichki chizilgan aylana radiusini toping.

\*10$\sqrt{2}$

10

5

5$\sqrt{2}$

75.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

k ning qanday qiymatlarida $\frac{4x-3}{x+2}=k+1$ tenglama manfiy ildizga ega.

\*3

2

4

1

76.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

b ning qanday qiymatida 9x2+bx+1 tenglama yagona yechimga ega.

\*7

±6

±5

4

77.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

Diagonallari 24 sm va 18 sm bo’lgan rombning perimetini toping

\*60

120

84

108

78.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 1

y=cos4x funksiyaning davrini aniqlang.

\*900

600

1800

3600

79.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 1

arccos ($\frac{\sqrt{2}}{2}$) ni hisoblang.

\*$\frac{π}{4}$

$$\frac{2π}{4}$$

$$\frac{π}{2}$$

$$\frac{π}{3}$$

80.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

Yig’indini hisoblang: 2arcsin$\frac{\sqrt{3}}{2}$ +4arcsin$\frac{1}{2}$

\*$\frac{4π}{3}$

$$\frac{π}{2}$$

$$\frac{3π}{2}$$

$$\frac{2π}{3}$$

$$\frac{π}{3}$$

81.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

$\left\{\begin{array}{c}x=4sint\\y=3cost\end{array}\right.$ funksiyaning grafigi qanday ko’rinishda bo’ladi.

\*ellips

parabola

giperbola

egri chiziq

82.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 1

$9^{\sqrt{3}}:3^{2\sqrt{3}}$ ni bajaring.

\*1

2

3

$$\sqrt{3}$$

83.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

y=$\sqrt{3 }^{x}$funksiya xossasini ayting

\*o’suvchi

kamayuvchi

x>0 da o’sadi

x,0 da kamayadi

84.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 3

Tengsizlikni yeching: $9^{x}+3^{x}-6\leq 84$

$$\*(\left.-\infty ;2\right]$$

$$(\left.-2;2\right]$$

$$(\left.-\infty ;\infty \right]$$

$$(\left.1;2\right]$$

85.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

lg(2x-3)=lg(x-1) tenglamani yeching.

\*x=2

x=1

x=4

x=10

86..Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 2

Uchta nuqta berilgan : A(1;1;1), B(-1;0;1), C(0;1;1) . Shunday D(x;y;z) nuqtani topingki, A̅B̅ va C̅D̅̄ vektorlar teng bo’lsin.

\*D(-2;0;1)

D(2;0;-1)

D(0;1;1)

D(1;1;1)

87.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 1

Ayirmani toping: (3+4i)-(4+2i)

\*-1+2i

1+2i

1-2i

7-6i

88.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

y=log3(2x-5) funksiyaning aniqlanish sohasini toping

\*(2,5;+$\infty $)

(2;5)

(-$\infty ;2,5$)

$$\left(-\infty ;+\infty \right)$$

89.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 2

Tengsizlikni yeching: 4x+2x-6$\geq $0

\*$\left[1;+\infty )\right.$

(1;$+\infty $)

(1;2)

(0;1)

90. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Funksiyaning o`zgarish tezligi bu |
| \*hosila |
| boshlang`ich |
| o’zgaruvchi funksiya |
| limit |

91. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| Nargiza 4minutda 260ta so`zni terib, 7ta imloviy xatoga yo`l qo`ydi. Nargizaning matn terish sifatini aniqlang |
| \*0,0269 |
| 0,6 |
| 0,01 |
| 0,5 |

92.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 2

ABCD parallelogrammning uchlari:A(-2;-4;3), B(3;1;7), C(4;2;-5) bo’lsa , D uchining koordinatalarini toping

\*D(-1;-3;-9)

D(1;3;9)

D(-1;-2;-9)

D(-1;-2;6)

93. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| funksiya hosilasi toping |
| \* |
| e |
| xex-1 |
| xe |

94.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 1

b̄(-4;8;2) bo’lsa, 2b̄ vektorning koordinatalari ni toping.

\*(-8;16;4)

(-2;4;1)

(8;-16;-4)

(2;-4;-1)

95. Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 1

|  |
| --- |
| lnx funksiya hosilasini toping  |
| \*1/x |
| 2/x |
| x |
| x/2 |

96.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 1

Agar A(1;2;3), B(3;7;6) bo’lsa, A̅B̅̅̅̅ vector koordinatalarini toping

\*(2;5;3)

(2;3;5)

(4;9;9)

(-2;-5;-3)

97.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 2

Uzunligi $\sqrt{54}$ ga teng bo’lgan a(c;2c;-c) vektorning koordinatalarini toping.

\*a(3;6;-3)

a(1;2;3)

a(-3;6;-3)

a(-1;-2;6)

98.Fan: Geometriya M.A. Mirzaahmedov , Sh.N. Ismailov. Qiyinchilik darajasi 2

k ning qanday qiymatida b̄(k-1;1;4) vektorning uzunligi $\sqrt{21}$ ga teng bo’ladi.

\*3;-1

1;3

1;2

-3;1

99.Fan: Algebra .M.A.Mirzaaxmedov, Sh.N. Ismailov qiyinchilik darajasi 1

Re(z)=4, Im(z)=-5 kompleks sonni algebraik ko’rinishda yozing.

\*z=4-5i

z=-5+4i

z=4+5i

z=-5-4i

100.Fan: matematika M.A. Mirzaahmedov, Sh.N.Ismailov, A.Q.Amanov qiyinchilik darajasi: 2

f(x)=sin2x funksiyaning hosilasini toping.

\*sin2x

cos2x

2sinx

tgx

ekspert taqriz

Ushbu matematika fanidan tuzilgan test varianti O‘zbekiston Respublikasi Vazirlar Mahkamasining 2017-yil 6- apreldagi 187-son qarori bilan tasdiqlangan umumiy o‘rta ta’limning davlat ta’lim standarti hamda umumiy o‘rta ta’limning  matematika fani bo‘yicha malaka talablari asosida tuzilgan bo‘lib, Test tuzishda Davlat Ta`lim Standartlariga mos bo`lgan darsliklardan, mavzulashtirilgan foydalanilgan. O`quvchilardan monitoring olish uchun barcha talablarga javob beradi.

***Metodbirlashma rahbari: Sharipova H***

***Fan o’qituvchilari: Ahadov U***

 ***U. Jo’rayeva***