**8-sinfa A LGEBRA VA GEOMETRIYA I-chorak**

**1. Nuqtalarabssissasini toping. (1;0), (4;0), (0;-2)**

**A)1, 4, 0; B)1, 4, 0; C)0, 0, -2; D)1, 4, -2.**

**2. Funksiyalarqandayusullardaberiladi.**

**A)formula, jadval, grafik B)formula, jadval, sistema**

**C)formula, jadval D)sistema, jadval, grafik.**

**3. Qavariquchburchakningdiognallarisoniqaysi**

**formula yordamidatopiladi.**

**A)n(n-3) B) C) D)**

**4. Funksiya y(x)=2x-1 formula bilanberilgan y(10) ni toping.**

**A)20 B)21 C)3 D)19.**

**5.y=3x funksiyaning x=3 bo`lganda y ningungamosqiymatni toping.**

**A)y=3 B)y=9 C)y= D)y=6.**

**6. Qavariquchburchakichkiburchaklariyig`indisi**

**qaysi formulayordamidatopiladi.**

**A)180(n-2) B)180(n-3) C) D)**

**7. Oltiburchakningichkiburchaklariyig`indisinitoping.**

**A)180o B)720o C)360o D)540o**

**8. y=kx+bfunksiyaqandayfunksiyagamisolbo`ladi.**

**A) jadvalli B) formulali C) chiziqli D) grafikli**

**9. Qo`yidagilardanqaysibirichiziqlifunksiyagamisolbo`ladi?**

**A) y=250 B) y=2x2+3 C) y=3x2 D) y=2x+5**

**10. Qo`yidaginuqtalardanqaysibiri y-3x+7 funksiyagateshli**

**A) (-1;4) B) (2;10) C) (1;11) D) (3;5)**

**11. Qo`yidaginuqtalardanqaysibiri y=-2x+5 funsiyagategishliemas?**

**A) (1;-3) B) (0;5) C) (3;-1) D) (-2;9)**

**12. To`g`rito`rtburchakningperimetri 66 smgatengeniesa 15 sm. Shuto`rtburchakningbo`yini toping?**

**A) 18 B) 36 C) 20 D) 23**

**13. To`g`ritomonlari 6mm, 8mm, 10mm va 1sm gat eng.Shuto`rtburchakningperimetrini toping.**

**A) 24 B) 25 C) 34 D) 35**

**14. Ta`rifnidavomettiring. y=x2funksiyada**

**A) x erklio`zgaruvchi, y(x) erksizo`zgaruvchi B) x erksizo`zgaruvchi, y(x) erklio`zgaruvchi**

**C) chiziqlifunksiya D) to`g`rijavobyo`q**

**15. S(t)=60t funksiyada S(3) ni toping.**

**A) 20 B) 30 C) 90 D) 180**

**16.Funksiya y=-3x+5 formula bilanberilgan. xnigshundayqiymatinitopingki y=-1 bo`lsin.**

**A) x=4 B) x=2 C) x=1 D) x=0**

**17. Funksiya y=x+2 formula bilanberilganM(0;2) nuqtashufunksiyagategishlimi?**

**A) tegishli B) tegishliemas C) a va b javoblarto`g`ri D) to`g`rijavobyo`q**

**18. y=kx+4 funksiyagrafigi M(1;1) nuqtadano`tishimumkinbo`lsa, k ni toping.**

**A) 3 B) -2 C) -3 D) 2**

**19. y=-2x+b fuksiyagrafigi M(-1;7) nuqtadano`tadi. bni toping.**

**A) 9 B) 3 C) -5 D) 5**

**20. Qavariq 18 burchakningtomonlarisoninitping.**

**A) 9 B) 20 C) 19 D)9**

**21 To`g`rito`rtburchakbirtomoni 16 smgaperimetri 70 smgatengikkinchitomonini toping.**

**A) 18 B) 19 C) 20 D) 35**

**22. Birinchidarajaliikkinomalumliikkitachiziqlitenglamalarsistemasiniumumiyko`rinishiniko`rsatining.**

**23.Tenglamalarsistemasidagi a1,b1,c1koefitsentlarni qiymatlariniko`rsating .**

**24. Tenglamalarsistemsiniyechishningnechaxilusuli bor.**

**A) 3 xil B) 2 xil C) 1 xil D) 4 xil**

**25. To`g`rito`rtburchakning 3 ta burchagimosravishda 400, 800, 1400bo`lsato`rtinchiburchagini toping.**

**A) 1200 B) 1000 C) 900 D) 600**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| b | a | c | d | b | a | b | c | d | a | a | a | c | a | d | b | a | c |

**19**. 5 20. 18 21. 19. **22**. $\left\{\begin{array}{c}a\_{1}x+b\_{1}y=c\_{1} \\a\_{2}x+b\_{2}y=c\_{2}\end{array}\right. $**23**. $a\_{1}=2,b\_{1}=3,c\_{1}=$5**24**. 3 xil **25**.1000

8-sinf algebra vageometriya II-chorak

**Qat` iy katta belgisini ko`rsating .**

**a) “** $\geq $**” b) “** $\leq $**”c)**$ ">" $ **d) “** $<$**”**

1. **Noqat` iytengsizlikbelgilariko`rsatilganjavobnitoping .**
2. **x**$\geq 5,y\leq o $ **b)x**$>5,y<o $**c)x =5 ,y = od)x**$\geq 5 , y <o$
3. **Tengsizlikniyeching : 3x**$-4>2$

**a) x**$<2 b)x>2 c) x\geq 2 d) x\leq 2$

**4 Kvadratningyuzi100**$ sm^{2}$ **ga teng bo`lsa , tomoniuzunligini toping .**

**a)**$8 sm b) 9sm c) 10sm d)11sm$

**5 Kvadratningperimetri 32 smgateng .Uningtomoniqanchagateng ?**

**a) 8sm b)9sm c) 10sm d) 11sm**

**6 Tengsizlikniyechin**$g : -4x>16$

**a)** $ x>-4 b)x<4 c) x\geq -4 d)x<-4$

**7 Tengsizlikniyeching :**$12x>-36$

$$a)x>-3 b)x>3 c)x\geq -3 d)x\leq -3$$

**8 Tengsizliklarsistemasiningyechimibo`laoladiganbarchabutunsonlarni toping:** $\left\{\begin{array}{c}x>2\\x<7\end{array}\right.$

**a)2,3,4,5,6 b)3,4,5,6,7 c)3,4,5,6, d)3,5,8**

**9 Tengsizliklarsistemasiniyeching:**$\left\{\begin{array}{c}3x-18>0\\4x>12\end{array}\right.$

$$a) x>6 b)x<6 c)x\geq 3 d)x\geq 6$$

**10 Modulningta`rifiqaysijavobdato`g`riko`rsatilgan ?**

$a)\left|a\right|=\left\{\begin{array}{c}-a,agar a\leq 0 bo`lsa\\a, agar a\geq 0 bo`lsa\end{array}\right.$**b)|a| =**$\left\{\begin{array}{c}a,agar a<0 bo`lsa\\-a,agar a>0 bo`lsa\end{array}\right.$

$$c)\left|a\right|= \left\{\begin{array}{c}a^{2}, agar x>0 bo`lsa\\-a^{2} , agar x\leq 0 bo`lsa\end{array}\right.d)\left|a\right|=\left\{\begin{array}{c}\sqrt{a , agar a<0 bo`lsa }\\a^{2} , agar a>0 bo`lsa\end{array}\right.$$

**11. Tenglamaniyeching :** $ |x|$**=7**

**a) X=7 b) X= -7 c) X**$>$ **7 d) X1 =7 , X2 =-7**

**12. Uchburchakningtomonlari 4 sm , 6 smva 8 smgateng. Shuuchburchakningo`rtachiziqlarinitoping .**

**a) 2; 3 ; 4; b) 2 ; 3 ; 6 c) 3 ; 4; 8; d) 4 ; 3 ; 4.**

**13. Trapetsiyaningasoslari 11 smva 17smgateng . Uningo`rtachizig`ininguzunligiqancha .**

**a) 28 b) 14 c) 6 d) 13**

**14. Trapeysiyaningkattaasosi 16 smgateng ,kichikasosiesaundan 6 smgaqisqa . Trapetsiyaningkichikasosinivao`rtachizig`ini toping .**

**a) 10 ; 13 b) 12 ; 8 c) 10 ; 12 d) 10 ; 8.**

**15. Trapetsiyaningkattaasosikichikasosidanuchmartakattavauningo`rtachizig`I 20 smgateng .Trapetsiyaningasoslarinitoping .**

**a) 10 ; 30 b) 5: 15 c) 20 ; 60 d) 12 ; 36**

**16. Tenglamaniyeching : |3X +2| = 1.**

**a) X = -**$\frac{1}{3}$ **; X =- 1 b) X=** $\frac{1}{3}$ **; X = 1 c ) X =** $\frac{2}{3}$ **; X= 1 d) X =** $\frac{3}{2}$ **; X= - 1 .**

**17 .Tenglamaniyeching :**$|$ **4X | = 16 .**

1. **X= 4 ; X= 8 b) X = - 4 ; c) X= 4 ; d) X = 4 ; X = - 4 .**

**18. Tengsizlikniyeching : |3X – 8 |> 1 .**

**a) 3 < X <**$\frac{7}{3}$ **b) 3** $\leq X\leq \frac{7}{3}$ **c) 3 > X >**$\frac{7}{3}$ **d) 3< X< 8 .**

**19. Tengsizlikniyeching :|2X – 6 |< 10 . 20. 20. Uchburchakningo`rtachiziqlaridanbiri 6smgateng . Shuo`rtachiziqqa parallel bo`lgantomonuzunligini toping .**

**21. Asoslariyig`indisi 26 smgatengbo`lgantrapetsiyaningo`rtachizig`initoping .**

**22. Ta`rifnidavomettiring : “a sonningkvadratildizi deb , . . . . . . . . . . . . . . . . . . . . . aytiladi”**

**23. Hisoblang : 7 -** $\sqrt{25}$ **.**

**24. Hisoblang :**$\sqrt{2}\*\sqrt{32}$

**25. Hisoblang :**$\sqrt{\frac{100}{49}}$ **.**

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

**19.** 3<x<$\frac{7}{3}$

**20 .**12**.**

**21** . 13.

**22**. ) kvadrati a gatengbo`lganmusbatsonga.

**23**.2.

**24**. 8.

**25**. $\frac{10}{7}$

8-sinfalgebra III-chorak

**1 Ta`rifnidavomettiring: Kvadrattenglama deb, …………. ko`rinishidagitenglamagaaytiladi.**

$$a) y-kx^{2 } b) Ax+B=0 c) y=kx+b d)ax^{2}+bx+c=0$$

**2 Agarkvadrattenglamaningkoyfitsentlari**$:a=-1, b=0, c=9 $**gateng bo`lsa,shu kvadrat tenglamani yozing.**

$$a)-x^{2}+9=0 b)x^{2}-x+9=0 c)-x-9=0 d)-9x^{2}+1=0$$

1. **Berilgantenglamanikvadrattenglamagakeltiring:** $x\left(x-3\right)=4$

$$a)x^{2}-3x+4=0 b)x^{2}-3x-4=0 c)x^{2}+3x+4=0 d)-x^{2}+3x-4=0$$

**4Teoremani davomettiring: ”shaklo`qqanisbatansimmetikakslantirilganda ……………**

**a)uningnuqtalariorasidagimasofao`zgaradi .**

**b)uningnuqtalariorasidagimasofao`zgarmaydi.**

**c)uningnuqtalariorasidagimasofa 2marta oshadi .d)nuqtalariorasidagimasofa 2 martakamayadi .**

**5. A (4;3) nuqtaqga Ox o’qiganisbatansimmetrikbo’lgannuqtani toping.**

**a) (4;-3) b) (-4;3) C) (-4;-3) d) (4;0)**

**6. A(-3;5) ) nuqtaqgaOyo’qiganisbatansimmetrikbo’lgannuqtani toping.**

**a) (3;5) b) (3;-5) c)(-3;-5) d) (-3;0)**

**7. Tenglamaniyeching:** $x^{2}$**-121=0**

**a) x=11 b) x=-11** $c) x=\pm 11 d) x=\pm 121$

**8. Tenglamaniyeching:** $x^{2}+5x=0$

**a) x=0, x=5 b) x=0, x=-5 c) x=5, x=-5 d) x=0, x=1**

**9. 4**$x^{2}-169=0$**. Tenglamani yeching.**

**a) x=**$\frac{13}{2,}$ **b) x=-**$\frac{13}{2,}$ **c) x=**$\pm \frac{13}{2,}$ **d) x=**$\pm \frac{13}{4}$

**10. -3; -2; 0 ; 1 sonlaridanqaysilari**$x^{2}-x=0$**tenglamani ildizi bo’ladi.**

**a) 0, 1 b) -2, 0 c) -3, -2 d) -2, 1**

**11. -3; -2; 0 ; 1 sonlaridanqaysilari**$x^{2}-9=0$ **tenglamani ildizi bo’ladi.**

**a) -3 b) -2, 0 c) 0, 1 d)-3, -2**

**12.To’g’rito’rtburchakningikkitomoni 4sm va 1,4m bo’lsa, uningyuzini toping.**

**a) 5, 8 b) 5, 4 c) 5,7 d) 5,6**

**13. Uchburchakningasosi 8sm, shuasosgao’tkazilganbalandligi 6sm gatengbo’lsabuuchburchakningyuzini toping.**

**a) 48 b) 96 c) 14 d)24**

**14. Trapetsiyaningasoslari 12sm va 14sm, balandligiesa 4sm gatengbo’lgantrapetsiyaningyuzini toping.**

**a) 13 b) 52 c) 32 d) 7**

**15. Asosi 0,25m vabalandligi 100m gatengbo’lganparallellogramningyuzini toping.**

**a) 25 m2 b) 2,5 m2 c) 250 m2 d) 2500 m2**

**16. Kvadrattenglamaniyeching. 2x2-3x+1=0**

**a) x1=1, x2=-1 b) x1=1, x2=** $\frac{1}{2,}$ **c) x1=-1, x2=-**$\frac{1}{2,}$ **d) x1=2, x2=-3**

**17. Teoremanidavomettiring. Agar x1 va x2lar x2+px+q=0 tenglamaningildizibo’lsa, u holda …………. o’rinli.**

**a) x1-x2=p b) x1+x2=p c) x1-x2=-p d) x1-x2=q**

**x1\*x2=q x1\*x2=q x1\*x2=q x1\*x2=-p**

**18. Tanlashyo’libilantenglamaildizlarini toping. X2+4x-5=0**

**a) x1=-5, x2= +1 b) x=4, y=5 c) x=4, y=1 d) yechimiyoq.**

**19. Tenglamaniyeching. X2-7x+12=0**

**20. Ta’rifnito’ldiring: Ushbu …………ko’rinishdagitenglamabikvadrattenglamadeyiladi.**

**21. Kvadrattenglamaningildizlarito’g’riyozilganjavobni toping.**

**22. Bikvadrattenglamaniyeching. 9x2+5x2-4=0**

**23.Teoremanidavomettiring.: To’g’riburchakliuchburchakgipotenuzasiningkvadrati…………**

**24.Pifagorteoremasiformulasiniyozing.**

**25. To’g’riburchakliuchburchakning ava b katetlarimosravishda 6 va 8 gatengbo’lsa, gipotenuzauzunligini toping.**

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

**19**. x=3,x=4

**20**. ax4+bx2 +c=0 .

**21**$x=\frac{-b\pm \sqrt{b^{2}-4ac}}{2a}$.

**22**. X=$\pm \frac{2}{3}$.

**23**. Katetlarikvadratlariningyig`indisigateng .

**24**.c2=a2+b2

**25**. 10

8-sinfalgebra IV-chorak

1. **Tenglamalarsistemasiniyeching.**$\left\{\begin{array}{c}x=2-y\\y^{2}+x=32\end{array}\right.$
2. **(7;-5),(-4;6) b) (-7;-5),(4;-6) c) (7;-5) d) (-4;6)**
3. **Tenglamaniyeching. 3x2=48**
4. **X=16 b) x=-16 c) x=**$\pm 4$ **d) x=4**

**3.Uchburchakningtomonlari 15, 15, 18 gatengbo’lsa, uningyuzini toping.**

**a) 30 b) 180 c) 54 d) 48**

**4. Geronformulasiyozilganjavobnitanlang.**

**a)**$P=\frac{a+b+c}{2}$ **b) ha=**$\frac{2}{a}\sqrt{P(P-a)(P-b)(P-c)}$

**c) S=**$\sqrt{P(P-A)(P-B)(P-C)}$ **d) S=**$\frac{1}{2}$**a\*ha**

**5. Tekislikningberilgannuqtadanbirxilmasofadauzoqlashganbarchanuqtalardaniboratshakl ………………. deyiladi.**

**a) Uchburchak b) Aylana c) burchak d) Beshburchak**

**6. Tenglamalarsistemasiniyeching.** $\left\{\begin{array}{c}x+y=3\\x^{2}-y^{2}=15\end{array}\right.$

**a) (1;4) b) (-1;4) c) (4;-1) d) (2;1)**

**7. Yig’indisi 3 ga, kvadratlariningyig’indisiesa 5 gatengbo’lganikkitasonni toping.**

**a) 1 va 2 b) 2 va 3 c) 2va 4 d) 1 va 3**

**8.** $\frac{3}{7}$**sonning 0,43 o’nli kasrga yaqinlashsa xatoligini toping.**

**a) -**$\frac{1}{ 700}$ **b) 0,7 c)** $\frac{1}{700}$ **d)** $\frac{2}{700}$

**9.Quyidagimiqdorlardantaqribiyqiymatlimiqdorlarniko’rsating.**

**a) “Sinfda 36 nafaro’quvchibor”**

**b) 2 ishchikassadan 70600 so’mpuloldi.**

**c) O’z-ton Respublikasiningdavlatbayrog’ida 12 ta yulduzbor**

**d) ToshkentdanBuxorogacha 500 km**

**10. Ta’rifdatushiribqoldirilganso’zni toping. “Miqdorninganiqqiymatibilanuningtaqribiyqiymatiorasidagi ………… moduli yaqinlashishningabsolyutxatoligideyiladi.”**

**a) Ayirmaning b) Yig’indining c) ko’paytmaning d) bo’linmaning**

**11. 0,1975sonining 0,198 sonibilanyaqinlashishxatoligini toping.**

**a) 0,05 b) 0,0005 C) 0,005 d) 0,0025**

**12. a son x sonningtqribiyqiymatibo’lsin. Agar x=4,82, a=4,9 bo’lsa, yaqinlashishxatoligini toping.**

**a) 0,0008 b) 0,008 c) 0,08 d) 0,8**

**13.Berilgannuqtaaylanmaning …………………….. deyiladi.**

**a) Vatari b) Markazi c) Radiusi d) Diametri**

**14. Aylananingixtiyoriynuqtasidanmarkazgachabo’lganmasofaaylananing ………deyiladi.**

**a) radiusi b) markazi c) vatari d) diametri**

**15. Aylananingikkitaixtiyoriynuqtaqsinitutashtiruvchikesmaaylananing ………. deyiladi.**

**a) radiusi b) markazi c) vatari d) diametri**

**16. Ta’rifnidavomettiring: “Uchiaylananingmarkazidabo’lganburchak ……… deb ataladi.”**

**a) tashqiburchak b) ichkiburchak c) yoy d) Markaziyburchak**

**17.Teoremanito’ldiring. “Vatargaperpendikulyardiamatrshuvatarnivaungatiralganyoyniteng ……….. bo’ladi.”**

**a) ikkiga b) uchqismga c) to’rtqismga d)**$\frac{1}{2}$ **qismga bo’ladi.**

**18. Agar ikkiaylananinmarkazlariorasidagimasofa 6 sm, radiuslarimosravishda 4 smva 2 smbo’lsa, ularo’zaroqandayjoylashadi.**

**a) kesishadi b) urinadi c) kesishmaydi d) to’g’rijavobyoq**

**19.** $\frac{2}{7}$**sonini shu songa 0,01 gacha aniqlikda teng bo’lgan o’nli kasr shaklida tasvirlang.**

**20. 430,24soniningstandartshakldayozing.**

**21. 0,068345 soninistandartshakldayozing.**

**22.** $\vec{a}$ **(-4;8 )va b (1;-4) vektorlarberilgan. 2**$\vec{a}$**+**$\vec{b}$ **vektorning koordinatalarini toping.**

**23.** $\vec{a}(2;-3)$**va**$\vec{b}$ **(-2;3) vektorlarning skalyar ko’paytmasini toping.**

**24.**$\vec{a}$ **(x1, y1) va**$\vec{b}$ **(x2, y2) vektorlarningskalyarko’paytmasi deb ……….. songaaytiladi.**

**25.** $\vec{a}$ **(-12; 5) vektorning modulini toping.**

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

**19.** $\frac{2}{7}$**=**0,285.

**20**. 4,3024\*102.

**21**. 6,8345\*10-2

**22**. 2$\vec{a}$+$\vec{b}$=(-7,12).

**23**. $\vec{a}$\*$\vec{b}$=-13.

**24**. $\vec{a}$\*$\vec{b}$=x1\*x2+y1\*y2

**25**. 13.