**9-sinf MATEMATIKA Yozma ish III Variant**

1. Tenglamani yeching: 

2. Qog’ozda aylana tasvirlangan. Sirkul va chizg’ich yordamida shu aylana markazini toping.

3. Tengsizlikni yeching:

4. Uchburchakning yuzi 5 sm2. Uning ikki tomoni uzunliklari mos ravishda 3 sm va 4 sm. Berilgan tomonlar hosil qilgan burchak bissektrisasi bilan bo’lingan uchburchaklar yuzalarini toping.

5. Agar a>0 bo’lsa,  ekanini isbotlang.

 **9-sinflar uchun MATEMATIKA fanidan test topshiriqlari I variant**

### №1. Tengsizlikni yeching:

 A) B) C) D)

**№2**  bo’lsa  ni toping.

 A) B) C) D)

**№3**. Taqqoslang:  va 

 A)a<b B)a>b C)a=b D)to’g’ri javob yo’q

**№4**.  tenglamaning nechta ildizi bor?

 A)1 B)2 C)4 D)0

**№5.** Ifodani soddalashtiring: 

 A)1 B)2 C)3 D)a+2

### №6.  shartni qanoatlantiruvchi  ifodaning son qiymatini toping.

###  A)123 B)22 C)121 D)

**№7**.  Funksiyaning qiymatlaridan tashkil topgan kesmaning uzunligini toping.

 A)5,25 B)2 C)1,75 D)3,5

**№8**. Tengsizlikning barcha yechimlar to’plamini toping: 

 A)(0;4) B) C) D)

**№9**.  va   tenglamaning ildizlari bo’lsin. ildizlari  va  bo’lgan kvadrat tenglama. a, b, c, sonlar eng katta umumiy bo’luvchisi 1 ga teng va a>0 bo’lgan butun sonlar bo’lsa, 100a+10b+c ifodaning qiymatini toping.

 A)411 B)232 C)322 D)1706

### №10.  funksiya son o’qining barcha nuqtalarida qat’iy o’suvchi bo’ladigan p parameterning barcha qiymatlar to’plamini ko’rsating .

###  A) B) C) D)

**№11.** Hisoblang:  A)1,4 B)1,2 C)0,7 D)2,4

**№12**. Eng kichigi b ga teng bo’lgan, 3 ga karrali ketma-ket uchta natural sonning ko’paytmasini toping. A) B) C) D)

**№13**. Berilgan tenglikdan b ni toping:  A) B)1,75 C)2 D)5

**№14**. Yo’lning birinchi qismida turist soatiga x km tezlik bilan x soat yurdi. Ikkinchi qismida tezligini 7 km/soatga, vaqt esa 4 soatga oshirildi. Umumiy bosib o’tilgan yo’lni ifodalovchi x ga bo’g’liq ifoda tuzing.

A) B) C) C)

**№15**. 11 ta sigir 6 kunda 7 chelak suv ichadi. 3 ta sigir 330 kunda necha chelak suv ichadi?

 A)70 B)98 C)105 D)to’g’ri javob yo’q

**№16.** Soddalashtiring : 

 A) B) C) D)

**№17**. Hisoblang:  A)8 B)4 C)2 D)1

### №18. ABC uchburchakda tomonlari uzunliklari: AB=12, BC=10, AC=18. Uchburchakning [BD] medianasi uzunligini toping.

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### №19. ABC uchburchakda AB=10,BC=3,AC=. B burchakning kosinusini toping.

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### №20. Tomonlari 3 sm va 9 sm bo’lgan to’g’ri to’rtburchak diagonallari hosil qilgan o’tkir burchakning kosinusini toping.

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### №21. 735x79 soni 9 ga qoldiqsiz bo’linadi. x raqamining eng kichik qiymatini toping..

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**№22** Hisoblang: 

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### №23.   ning qiymatini baholang.

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### №24. Tarkibida 19% tuz bolgan 48 kg eritmani, tarkibida 39% tuz bo’lgan eritma bilan aralashtirildi. Agar tarkibida 31% tuz bo’lgan eritma hosil bo’lgan bo’lsa ikkinchi eritmadan necha kg olingan?

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### №25.  tenglamaning ildizlari  bo’lsa,  ifodaning qiymatini toping.

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**10-sinf MATEMATIKA Yozma ish III Variant**

1. Tenglamani yeching: 

2. Qog’ozda aylana tasvirlangan. Sirkul va chizg’ich yordamida shu aylana markazini toping.

3. Tengsizlikni yeching:

4. Uchburchakning yuzi 5 sm2. Uning ikki tomoni uzunliklari mos ravishda 3 sm va 4 sm. Berilgan tomonlar hosil qilgan burchak bissektrisasi bilan bo’lingan uchburchaklar yuzalarini toping.

5. Agar a>0 bo’lsa,  ekanini isbotlang.

 **10-sinflar uchun MATEMATIKA fanidan test topshiriqlari I variant**

1. 4343-1717 ayirmani 10 ga bo’lgandagi qoldiqni toping. A) 1 B)5 C)2 D)0
2. A2+b2 ni a·b va a+b orqali ifodalang. A) (a+b)2-2ab B)(a+b)2-ab C)(a+b)2-4ab D)(a+b)·ab
3. X2-13x+q=0 tenglamaning ildizlaridan biri -14 ga teng. Uning ikkinchi ildizini toping. A)27 B)-1 C)-27 D)1
4. Qo’yidagi keltirilgan lardan qaysi biri ayniyat. 1.(x-c)(x-d)=x2-(c-d)x+cd 2. (x-e)(x+d)=x2-(e-d)x-ed 3. 12x2-y2-(8x2-5y2-(-10x2+(5x2-6y2)))=-x2+12y2 4. 3a-(2c-(6α-(c-b)+c+(α+8b)-6c=10α+9b-8c

A)1;3;4 B)2;3;4 C)1;2;4 D)1;2;3

1. Aylananing MN vatari 1200li yoyinitortib turadi. MN vatar o’zi tortib turgan kichik yoyning ixtiyoriy nuqtasidan qanday burchak ostida ko’rinadi? A) 1200 B)2700 C)1100 D)1000
2. Sayyoh muayyan masofaning 70% ni poezdda 29,8%ga paraxodda bosib o’tgandan keyin yo’l oxiriga cha yana 200 m qoldi Sayyi=oh poezdda necha km yo’l bosgan. A) 80 B)70 C)85 D)75
3. ·αx =3x+1 tenglama α ning qanday qiymatlarida yechimga ega bo’lmaydi? A)α=2 B)α≠1 C)α=3 D)α≠2
4. $\frac{21}{(4\frac{2}{5}∙6\frac{1}{3}-5\frac{19}{21}∙4,4)∙\frac{5}{22}} ni hisoblang $ A) 4,5 B)0,45 C)4,9 D)4,2
5. $(1-3α)^{2}-\left(1+3α\right)\left(3α-1\right)ni soddalashtiring. $ A) -6α+2 B)18α2-6α C)9α2-3α D) -3α+2

 10 . Kvadratning perimetri 20% ga uzaytirilsa , uning yuzi necha % ga kamayadi?

A) 20 B)25 C)40 D)44

1. Agar x1 va x2 9x2+3x-1=0 tenglamaning ildizlari bo’lsa,$\frac{3x\_{1}∙x\_{2}}{x\_{1}+x\_{2}}$ ning qiymatini toping. A)-1 B)1 C)2 D)3
2. Amallarni bajaring. $\frac{9}{5-\sqrt{7}}+\frac{22}{7+\sqrt{5}}-\frac{1}{\sqrt{7}+\sqrt{5}}$ A) 1 B)6 C)$\frac{1}{5}$ d)5

**№13**. Berilgan tenglikdan b ni toping:  A) B)1,75 C)2 D)5

**№14**. Yo’lning birinchi qismida turist soatiga x km tezlik bilan x soat yurdi. Ikkinchi qismida tezligini 7 km/soatga, vaqt esa 4 soatga oshirildi. Umumiy bosib o’tilgan yo’lni ifodalovchi x ga bo’g’liq ifoda tuzing.

A) B) C) C)

**№15**. 11 ta sigir 6 kunda 7 chelak suv ichadi. 3 ta sigir 330 kunda necha chelak suv ichadi?

 A)70 B)98 C)105 D)to’g’ri javob yo’q

**№16.** Soddalashtiring : 

 A) B) C) D)

**№17**. Hisoblang:  A)8 B)4 C)2 D)1

### №18. ABC uchburchakda tomonlari uzunliklari: AB=12, BC=10, AC=18. Uchburchakning [BD] medianasi uzunligini toping.

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### №19. ABC uchburchakda AB=10,BC=3,AC=. B burchakning kosinusini toping.

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### №20. Tomonlari 3 sm va 9 sm bo’lgan to’g’ri to’rtburchak diagonallari hosil qilgan o’tkir burchakning kosinusini toping.

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### №21. 735x79 soni 9 ga qoldiqsiz bo’linadi. x raqamining eng kichik qiymatini toping..

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**№22** Hisoblang: 

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### №23.   ning qiymatini baholang.

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### №24. Tarkibida 19% tuz bolgan 48 kg eritmani, tarkibida 39% tuz bo’lgan eritma bilan aralashtirildi. Agar tarkibida 31% tuz bo’lgan eritma hosil bo’lgan bo’lsa ikkinchi eritmadan necha kg olingan?

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### №25.  tenglamaning ildizlari  bo’lsa,  ifodaning qiymatini toping.

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**11-sinf MATEMATIKA Yozma ish III Variant**

1. Ikkita kotiba birgalikda qo’lyozmani 12 soatda kompyuterda yozib tugatishadi. Agar 1-kotiba avval qo’lyozmaning yarmini yozib, keyin qolganini 2-kotiba davom ettirsa, qo’lyozmani yozib tugatish uchun 25 soat kerak bo’ladi. Ularning har biri alohida yozsa qo’lyozmani qancha vaqtda yozib tugatishlari mumkin?

2. Uchburchakning ikkita tomoni 1 va √13 ga, uchinchi tomonga tushirilgan medianasi esa 2 ga teng bo’lsa, uchburchakning yuzini toping.

3. To’g’ri burchakli uchburchak katetlaridan birining o’rtasidan gipotenuzaga perpendikulyar tushirilgan. Gipotenuzada hosil bo’lgan kesmalar kvadratlarining ayirmasi ikkinchi katet kvadratiga teng ekanligini isbotlang.

4. Uchburchakning yuzi 5 sm2. Uning ikki tomoni uzunliklari mos ravishda 3 sm va 4 sm. Berilgan tomonlar hosil qilgan burchak bissektrisasi bilan bo’lingan uchburchaklar yuzalarini toping.

5. Agar a>0 bo’lsa,  ekanini isbotlang.

 **11-sinflar uchun MATEMATIKA fanidan test topshiriqlari I variant**

1. Qaysi funksiya chiziqli funksiya emas ? а) у = 100; b)у =  d) у = -х + 2.

2. у = - 1,5х - 5 funksiya berilgan. Agar у = 1 bo‘lsa , х ning qiymatini toping. а) -1,5; b) -4; c) -2; d) 1,5.

3. у = -3х + 1 to‘g‘ri chiziqning ordinata o‘qi bilan kesishgan nuqtasinig koordinatalarini toping.

 а) (0; 1); b) (1; 0); c) (-1; 0); d)

4. Ordinata o‘qiga nisbatan simmetrik nuqtalar juftini toping.

а) А(5;3) va В(-5;3); b) А(1;3) va В(3;1); c) А(-1;3) va В(3;-1); d) А(0;1) va В(1;0).

5. Funksiya S(t) = -2t + 3 formula bilan berilgan bo‘lsa S(2) ni toping. а) –2; b) 2; c) 1; d) 0.

6. у = 1,5х - 2 va у = 4 – 0,5х funksiyalar grafiklarining kesishgan nuqtasining koordinatalarini toping.

 а)(3; 2,5); b)(-3; -6,5) c)  d) (3; 6,5).

7. (1;-2) sonlar jufti qaysi tenglamalar sistemasining yechimi bo‘la olmaydi ?

 

8. k ning qanday qiymatida  tenglamalar sistemasi yechimga ega emas? а) ķ ning ixtiyoriy qiymatida; b)к ning hech qanday qiymatida; c) –2; d) k ning 2 va –2 dan boshqa barcha qiymatlarida.

9. а ning qanday qiymatida tenglamalar sistemasi yechimga ega emas? 

а) 2; b) 0,5; c) - d) 1.

10. Tenglamalar sistemasini algebraik qo‘shish isulida yeching:

 а)(1; 4); b) (-1; 4); c) (1;- 4); d) (1; 2);

11. Tenglamalar sistemasini yeching: 

 а) (-8;10); b) (-8;-10); c) (8;-10); d) (8;10).

12. Lola va oyisi birgalikda 110 chuchvara tayyorladilar, bunda Lola 2 soat, oyisi 3 soat ishladilar. Agar ular 1 soatda birgalikda 43 chuchvara tayyorlagan bo‘lsalar, ularnung har biri nechtadan chuchvara tayyorlaganlar ?

 а) 46 va 64; b) 45 va 65; c) 42 va 68; d) 38 va 72.

№13. Berilgan tenglikdan b ni toping:  A) B)1,75 C)2 D)5

№14. Yo’lning birinchi qismida turist soatiga x km tezlik bilan x soat yurdi. Ikkinchi qismida tezligini 7 km/soatga, vaqt esa 4 soatga oshirildi. Umumiy bosib o’tilgan yo’lni ifodalovchi x ga bo’g’liq ifoda tuzing.

A) B) C) C)

№15. 11 ta sigir 6 kunda 7 chelak suv ichadi. 3 ta sigir 330 kunda necha chelak suv ichadi?

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Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

№22 Hisoblang: 

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### №23.   ning qiymatini baholang.

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### №24. Tarkibida 19% tuz bolgan 48 kg eritmani, tarkibida 39% tuz bo’lgan eritma bilan aralashtirildi. Agar tarkibida 31% tuz bo’lgan eritma hosil bo’lgan bo’lsa ikkinchi eritmadan necha kg olingan?

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### №25.  tenglamaning ildizlari  bo’lsa,  ifodaning qiymatini toping.

Javob \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_