

### Matematika 7-sinf 1- вариант

- $\frac{3}{7}x + \frac{2}{3}x - \frac{4}{21}x$  Ifodaning qiymatini toping, agar  $x = \frac{3}{19}$   
a)  $\frac{1}{7}$ ; b)  $\frac{2}{7}$ ; c)  $\frac{1}{5}$ ; d)  $\frac{3}{7}$ .
- $\frac{m-2}{m}$  kasrning qiymatini toping, agar  $m = 2\frac{1}{2}$   
a)  $\frac{1}{3}$ ; b)  $\frac{1}{5}$ ; c)  $\frac{2}{5}$ ; d)  $\frac{2}{3}$ .
- $0,83y + 0,56y - 0,92y - 0,83y$  Ifodani soddalashtiring va uning qiymatini toping  
agar  $y = -4,5$  bo'lsa.  
A. 16,2 B. 162 V. 1,62 G. 0,162.
- Qovuslarni oching va soddalashtiring  $-\left(3\frac{1}{2} + 2\frac{1}{9}\right) + 3\frac{1}{9}$   
a)  $2\frac{1}{2}$ ; b)  $1\frac{1}{2}$ ; c)  $-1\frac{1}{2}$ ; d)  $-2\frac{1}{2}$ .
- Tenglamani yeching  $-5,4 - (x - 7,2) = 1,9$ .  
A. -0,1 B. 0,1 V. 1 G. -1
- Amallarni bajaring:  $\frac{(5^2)^2 \cdot 5^4}{5^7}$   
A. 25 B. 5 V. 125 G. 1.
- Birhadni standart ko'rinishga keltiring.  $(0,6y^2x)(-1,3x^2y)$ .  
A.  $-7,8x^3y^3$  B.  $7,8x^3y^3$  V.  $6,8x^3y^3$  G.  $-6,8x^3y^3$ .
- Ko'phadni standart ko'rinishga keltiring  
 $2ab + 0,3a^2 - 4ab + 0,7a^2 + 3ab$ .  
A.  $a^2 + ab$  B.  $0,1a^2 + ab$  V.  $a^2 - ab$  D.  $0,1a^2 - ab$ .
- Ko'phadlar bilan amallarni bajaring  $(4a - 5a^2b + 6b^2) - (7b^2 + 4a^2b - a)$ .  
A.  $-9a^2b - b^2 + 5a$  B.  $-9a^2b - b^2 + 5a$  V.  $-9a^2b - b^2 + 5a$  G.  $-9a^2b - b^2 + 5a$ .
- Qovuslarni oching va amallarni bajaring:  $2x(x + 4) - x(x - 5)$ .  
A.  $x^2 + 13x$  B.  $3x^2 - 13x$  V.  $x^2 - 13x$  G.  $3x^2 + 13x$ .
- Bo'lishlarni bajaring:  $(3x^2y^3 - 2x^3y^2 + 4x^3y^3) : (x^2y^2)$ .  
A.  $3y - 2x + 4xy$  B.  $3y - 2x - 4xy$  V.  $-3y - 2x + 4xy$  G.  $3y + 2x + 4xy$ .
- Gruppalsh usuli bilan ko'paytuvchilarga ajratish:  
 $ax - ay + 5x - 5y$ .  
A.  $(x + y)(a + 5)$  B.  $(x - y)(a + 5)$  V.  $(x - y)(a - 5)$  G.  $(x + y)(a - 5)$ .
- Ko'paytuvchilarga ajratish:  $-5a^2 - 10ab - 5b^2$ .  
A.  $5(a - b)^2$  B.  $(a - 5b)^2$  V.  $-5(a - b)^2$  G.  $(a + 5b)^2$ .
- Ko'paytuvchilarga ajratish:  $16x^4 - 81$ .  
A.  $(4x^2 + 3)(4x^2 - 3)$  B.  $(2x^2 + 3)(2x^2 - 3)$  V.  $(4x + 9)(4x - 9)$ ; G.  $(4x^2 + 9)(4x^2 - 9)$ .
- Tenglamani yeching  $5(x + 1,2) = 34x + 0,2$ .  
A.  $x = -0,2$  B.  $x = 0,2$  V.  $x = 0,3$  G.  $x = -0,3$ .

16. Kasrni qisqartiring  $\frac{x^2 + y^2 + 2xy}{2x^2 - 2y^2}$ .

a)  $\frac{x-y}{2(x+y)}$ ; b)  $\frac{x+y}{2(x-y)}$ ; c)  $\frac{1}{2(x-y)}$ ; d)  $\frac{1}{2}$ .

17. Amallarni bajaring :  $\left(\frac{1}{x-y} - \frac{1}{x+y}\right) \cdot \frac{x^2 - y^2}{3}$

a)  $\frac{2x}{3}$ ; b)  $\frac{y}{3}$ ; c)  $\frac{2y}{3}$ ; d)  $\frac{x}{3}$ .

18. Amallarni bajaring :  $\left(\frac{a+b}{a-b} - \frac{a-b}{a+b}\right) : \frac{ab}{a^2 - b^2}$ .

A. 0 B. 2 V. 1 G. 4.

19. Qo'shni burchaklardan biri ikkinchisidan  $30^\circ$  ga katta. Bu burchaklarni toping..

A.  $75^\circ; 105^\circ$  B.  $65^\circ; 115^\circ$  V.  $85^\circ; 95^\circ$  G.  $55^\circ; 125^\circ$ .

20. Ikki to'g'ri chiziqning kesishidan hosil bo'lgan burchak  $45^\circ$  ga teng. Hosil bo'lgan burchaklarni toping.

A.  $55^\circ; 125^\circ; 125^\circ$  B.  $45^\circ; 135^\circ; 135^\circ$  V.  $65^\circ; 115^\circ; 115^\circ$  G.  $75^\circ; 105^\circ; 105^\circ$ .

21. Teng yonli uchburchakning perimetri 3,5 m, asosi 1,3 m. Uning tomonlarini toping.

A. 1,2 B. 1,1 V. 1 G. 11.

22. Uchburchakning burchaklarining nisbati 7:5:3 ga teng. Uchburchakning burchaklarini toping.

A.  $84^\circ; 50^\circ; 46^\circ$  B.  $94^\circ; 50^\circ; 36^\circ$  V.  $84^\circ; 60^\circ; 36^\circ$  G.  $84^\circ; 64^\circ; 32^\circ$ .

23. ABC teng yonli uchburchakda ( $AB = BC$ ) tashqi burchak BCK  $150^\circ$  ga teng. ABC burchakni toping..

A.  $130^\circ$  B.  $110^\circ$  V.  $100^\circ$  G.  $120^\circ$ .

24. Ikki to'g'ri chiziqni uchinchi to'g'ri chiziq bilan kesganda hosil bo'lgan ichki bir tomonli burchaklar nisbati 2:3 ga teng. Bu burchaklarni toping.

A.  $72^\circ$  va  $108^\circ$  B.  $62^\circ$  va  $118^\circ$  V.  $82^\circ$  va  $98^\circ$  D.  $92^\circ$  va  $88^\circ$ .

25. ABC va DEF uchburchaklar teng. ABC uchburchakning burchaklari  $\angle A = 35^\circ$ ;  $\angle B = 50^\circ$ ;  $\angle C = 95^\circ$ . DEF uchburchakning burchagini toping..

A.  $\angle D = 90^\circ$ ;  $\angle E = 55^\circ$ ;  $\angle F = 35^\circ$  B.  $\angle D = 35^\circ$ ;  $\angle E = 50^\circ$ ;  $\angle F = 95^\circ$

V.  $\angle D = 50^\circ$ ;  $\angle E = 35^\circ$ ;  $\angle F = 95^\circ$  D.  $\angle D = 95^\circ$ ;  $\angle E = 35^\circ$ ;  $\angle F = 50^\circ$ .