Matematika 7-sinf 2-вариант

1. Ifoganing qiymatini toping $\frac{3}{7}x+\frac{2}{3}x-\frac{4}{21}x$**, agar x =** $\frac{7}{38}$

$а)\frac{1}{7};б)\frac{1}{6};в)\frac{1}{5};г)\frac{5}{6}.$

2.Kasrning qiymatini toping $\frac{x}{x+1}$**, agar x =** $1\frac{1}{2}$

$а)\frac{1}{3};б)\frac{1}{5};в)\frac{3}{5};г)\frac{2}{3}.$

3. Ifodani soddalashting va qiymatini mtoping 0,19n - 0,87n – 0,91n + 0,87n agar n = - 1,5 bo'lsa.

A. 10,8 B. 108 V. 1,08 G. 0,108.

4. Qovuslarni oching va soddalshtiring $-\left(4\frac{5}{12}-3\frac{1}{6}\right)+1\frac{5}{12}$

$а)\frac{1}{6};б)1\frac{1}{6};в)-1\frac{1}{6};г)-\frac{1}{6}.$

5. Tenglamalarni yeching -8,9 – (3,7 – x) = -13,6.

A.–0,1 B. 0,1 V. 1 G. -1

6. Amallarni bajaring $\frac{(3^2)^3\cdot 3^4}{3^8}$

A. 27 B. 3 V. 1 D. 9.

7. Birhadni standart ko'rinishga keltiring: $(0,4x^3y)(-1,6xy^2)$.

A. $6,4x^3y^3$ B. $-6,4x^4y^3$ V.$6,4x^3y^4$ G. $–6,4x^3y^3$.

8. Ko'pgadni standart ko'rinishga keltiring:

$3xy - 0,2x^2 – 5xy - 0,8x^2 – 4xy.$

A. $x^2 – 6xy$ B. $-x^2 – 6xy$ V. $0,1x^2 – xy$ G. $-0,1x^2 - xy$.

9. Ko'phadlar bilan amallarni bajaring $(6m + 2m^2 n – 5n^2) + (9m^2 – 4m^2 n – 8n^2)$.

A. $3m^2 – 2m^2 n –13n^2$ B. $15m^2 – 2m^2 n – 13n^2$ V. $15m^2 + 2m^2 n + 13n^2$;

G. $-15m^2 – 2m^2 n – 13n^2$.

10. Qovuslarni oching va soddalashtiring: $(a - 1)\cdot 2a – (a + 5)\cdot 3a$.

A. $-a^2 – 17a$ B. $5a^2 – 13a$ V. $a^2 – 17a$ G. $5a^2 + 13a$.

11.Bo'lishni bajaring: $(3a^4b^4 + 2a^4b^3 – 3a^3b^2) : (-a^3b^2)$.

A. $3ab – 2a + 3$ B. $–3ab^2 – 2a + 3$ V. $–3ab + 2a – 3b$ G.$-3ab – 2a + 3$.

12. Gruppalash usuli bilan ko'paytuvchilarga ajrating.

$2a – 2b + ca – cb.$

A. $(a + b)(2 + c)$ B. $(a - b)(2 - c)$ V. $(a + b)(2 - c)$ G. $(a - b)(2 + c)$.

13.Ko'paytuvchilarga ajrating.$-4a^2 – 8ab – 4b^2$.

A. $4(a - b)^2$ B. $(a – 2b)^2$ V. $–4(a - b)^2$ G. $-4(a + b)^2$.

14. Ko'paytuvchilarga ajrating: $81a^4 – 1$.

A. $(9a + 1)(9a - 1)$ B. $(3a^2 + 1)(3a^2 - 1)$ V $(9a^2 + 1)(9a^2 - 1)$

G. $(a^2 + 1)(a^2 - 1)$

15.Tenglamani yeching: $2(0,6x + 1,85) – 0,7 = 1,3x$.

A. x = 3 B. x = 30 V. x = 0,3 G. x = - 30.

16. Kasrlarni qisqartiring: $\frac{x^2+y^2-2xy}{3x^2-3y^2}$.

$a)\frac{x-y}{3(x+y)};б)\frac{x+y}{3(x-y)};в)\frac{1}{3(x-y)};г)\frac{1}{3}.$

17. Amallarni bajaring: $\left(\frac{1}{a+b}-\frac{1}{a-b}\right)\cdot\frac{a^2-b^2}{5}$

$a)\frac{2b}{5};б)-\frac{2b}{5};в)\frac{a}{5};г)-\frac{a}{5}.$

18. Amallarni bajaring: $\left(\frac{x+2}{x-2}-\frac{x-2}{x+2}\right):\frac{2x}{x^2-4}$.

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

19. Qo'shni burchaklardan biri ikkinchisidan 80^0 katta.

A. 40^0; 140^0 B. 50^0; 130^0 V. 60^0; 120^0 . G. 70^0; 110^0.

20. Ikki to'gri chiziqning kesishishidan 103^0 ga teng burchak hosil bo'ldi.Barcha hosil bo'lgan burchaklarni toping.

A. 93^0; 87^0 ; 87^0 B. 103^0; 77^0; 77^0 V. 97^0; 97^0 ;83^0 G. 73^0; 107^0; 107^0.

21. Teng yonli uchburchakning perimetri 3,4 dm, asosi 0,8 dm. Yon tomonlarni toping.

A. 1,3 dm B. 1,1 dm V.13 dm D. 0,13 dm.

22. Uchburchakning burchaklarini nisbati 7:4:1 ga teng. Uchburchakning burchaklarini topng.

A. 105^0; 50^0; 25^0 B. 95^0; 70^0; 15^0 V.105^0; 60^0; 15^0 G. 110^0; 50^0; 20^0.

23. ABC teng yonli uchburchakning (AB = BC) tashqi burchagi BCK 110^0 ga teng. ABC burchakni toping.

A. 50^0 B. 40^0 V. 60^0 G. 30^0.

24. Ikki to'gri chiziq uchinchi to'g'ri chiziq bilan kesishganda burchaklardan biri ikkinchisidan 32^0 ga katta. Bu burchaklarni toping.

A. 72^0 и 108^0 B. 62^0 и 118^0 V. 82^0 и 98^0 G. 74^0 и 106^0.

25. ABC va DEF uchburchaklar teng. DEF uchburchaklar burchaklari teng: $\angle D = 85^0$; $\angle E = 50^0$; $\angle F = 45^0$. ABC uchburchakni burchaklarini toping.

A. $\angle A = 85^0$; $\angle B = 50^0$; $\angle C = 45^0$ B. $\angle A = 45^0$; $\angle B = 50^0$; $\angle C = 85^0$

V. $\angle A = 50^0$; $\angle B = 85^0$; $\angle C = 45^0$ G. $\angle A = 85^0$; $\angle B = 45^0$; $\angle C = 50^0$

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