

Test

1. $\frac{4}{5} + \frac{1-\frac{3}{4}}{1-\frac{1}{4}} - \left(2\frac{1}{5} - \frac{2}{5}\right)$ ning qiymatini toping.

- A) -4/5 B) 1/5 C) 8/5 D) -8/5

2. 96 sonning natural bo'luvchilari yig'indisini toping.

- A) 120 B) 124 C) 160 D) 252

3. $\frac{x+2}{x} \cdot \frac{1}{1-\frac{1}{x^2}}$ ifodani soddalashtiring

- A) $\frac{1}{x-2}$ B) $\frac{x}{x-2}$ C) $\frac{x-2}{x}$ D) x

4. Agar $1 < x < 2$ bo'lsa, $|x-1| - |2-x|$ ning qiymatini soddalashtiring. A) -1 B) 1 C) $2x-3$ D) $3-2x$

5. $\frac{3-x}{2x-1} \geq 0$ tengsizlikni bajaring.

- A) $[0,5;3)$ B) $(0,5;3]$ C) $[0,5;3]$ D) $x < 0,5; x \geq 3$

6. $\begin{cases} (x+3)(x+2) \leq (x+4)(x-1) + 5 \\ 2(5x-1) \geq 3(3x-2) \end{cases}$ tengsizliklar

systemasining butun yechimlari yig'indisini toping.

- A) -6 B) -7 C) -8 D) -9

7. $1 < x < 5$ bo'lsa, $|2x-1| + |2x-10|$ ning yig'indini soddalashtiring. A) $4x-11$ B) $11-4x$ C) -9 D) 9

8. $(0,04)^2 \cdot (0,05)^{-3} \cdot (0,007)^4 = 2^a \cdot 5^b \cdot 7^c$ tenglamada a, b va c butun sonlar bo'lsa, a-b-c ni toping.

- A) 0 B) 4 C) 5 D) 3

9. $\frac{(5-x)^2 \cdot (1-x)}{x+1} \geq 0$ tengsizlikning eng katta va eng kichik butun qiymatlari ayirmasini toping. A) 4 B) 5 C) 6 D) 1

10. $\left(\frac{x}{y} + \frac{y}{x} + 2\right) \left(\frac{x}{y} + \frac{y}{x} - 2\right) \cdot \frac{x^3 y^3}{(x^2 - y^2)^2}$ ni soddalashtiring.

- A) 1 B) xy C) 1:xy D) x/y

11. $a-b=3$ va $ab=5$ bo'lsa, a^3-b^3 ning qiymatini toping.

- A) 18 B) 20 C) -18 D) 72

12. $7,2(1)-4,4(2)+31/90$ ning qiymatini toping.

- A) 3,1(3) B) 3,1(2) C) 2,1(3) D) 2,1(2)

13. Do'kon 3 kunda jami 175 kg kartoshka sotdi. Agar ikkinchi kun uchunchi kunga nisbatan 1,5 marta ko'p, birinchi kun esa ikkinchi kunga nisbatan 2,4 marta kam kartoshka sotgan bo'lsa, do'kon birinchi kun necha kilogramm kartoshka sotgan?

- A) 35 B) 44 C) 56 D) 27

14. Ifoda qiymatini toping. $\left(\sqrt{4-\sqrt{7}} + \sqrt{4+\sqrt{7}}\right)^2$

- A) 7 B) 14 C) 11 D) 22

15. Quyidagi sonlarni o'sish tartibida joylashtiring

$a=6; b=4\sqrt{2}; c=2\sqrt{10}$

- A) $a < b < c$ B) $c < b < a$ C) $b < a < c$ D) $c < a < b$

16. $(\sqrt{7} + 1 - \sqrt{3})(\sqrt{7} + \sqrt{3} - 1)$ ifodani soddalashtiring.

- A) $5 + 2\sqrt{3}$ B) $3 - 2\sqrt{3}$ C) $5 - 2\sqrt{3}$ D) $3 + 2\sqrt{3}$

17. Sotuvchi ikki mahsulotdan birini 40% foyda bilan 840 so'mga, boshqasini 40% zarar bilan 840 so'mga sotgan bo'lsa, sotuvchining tijorati haqida nima deyish mumkin?

- A) 300 so'm foyda B) 300 so'm zarar
C) 320 so'm foyda D) 320 so'm zarar

18. $\frac{\sqrt{3}-1}{\sqrt{15}-\sqrt{5}+\sqrt{3}-1} - \frac{\sqrt{7}+1}{\sqrt{35}-\sqrt{7}+\sqrt{5}-1}$ ning qiymatini soddalashtiring. A) 0,5 B) 2 C) -2 D) -0,5

19. $y = \sqrt{1-x} + \sqrt{x+3}$ funksiya aniqlanish sohasini nechta butun son qanoatlantiradi. A) 3 B) 4 C) 5 D) 1

20. $f(x) = 2x - 5$ bo'lsa, $f(g(x)) = \frac{2x+3}{x-5}$ bo'lsa, $g(2)$ ni toping. A) 4/3 B) 3/4 C) -4/3 D) -3/4

21. Agar $\frac{a}{b} = 7 - \sqrt{40}$ bo'lsa, $\frac{\sqrt{a}-\sqrt{5b}}{\sqrt{b}}$ ni toping.

- A) $\sqrt{5}$ B) $\sqrt{2}$ C) $-\sqrt{5}$ D) $-\sqrt{2}$

22. 12 va 39 sonlarining har birini qanday songa oshirsak, birinchisi ikkinchisining 50% iga teng bo'ladi?

- A) 12 B) 15 C) 16 D) 20

23. Agar $a+b=3$ va $ab=-1$ bo'lsa, $a^2b^4+a^4b^2$ ni hisoblang.

- A) 12 B) 11 C) 18 D) 13

24. $\sqrt{6-4\sqrt{2}} + \sqrt{7+2\sqrt{10}} + 2 - \sqrt[4]{(-5)^2}$ ni hisoblang. A) 5 B) 0 C) 4 D) -3

25. 20 kg eritmaning 10% i tuzdan iborat. Tuz miqdori 8% bo'lishi uchun unga qancha kg chuchuk suv qo'shish kerak? A) 3 B) 4 C) 5 D) 6

26. Agar $x^2+y^2=281$ va $x-y=\sqrt{201}$ bo'lsa, xy ko'paytmaning qiymatini toping. A) -80 B) -160 C) 80 D) 40 E) 160

27. Agar $3^x=90$ bo'lsa, $|x-4| - |7+x|$ ning qiymatini toping. A) $2x-11$ B) $11-2x$ C) -11 D) 11

28. Tuyaning chanqoq holatidagi og'irligining 84% suvdan iborat. Suv ichganidan keyin uning og'irligi 800 kg va og'irligining 85% suvdan iborat bo'ldi. Tuyaning chanqoq vaqtidagi massasi qancha. A) 720 B) 715 C) 750 D) 680

29. Ikki sonning yig'indisi 32 ga, kvadratlar ayirmasi 192 ga teng bo'lsa, shu ikki sonning kvadratlar yig'indisini toping.

- A) 530 B) 630 C) 570 D) 480

30. $\left|1 + \frac{4-x}{3}\right| = 7$ bo'lsa, tenglamani bajaring.

- A) -22;-20 B) -21;22 C) -14;28 D) -20;22

31. $\sqrt{22+12\sqrt{2}} + \frac{2\sqrt{2}-1}{\sqrt{2}+1}$ ning qiymatini toping.

- A) $7 + \sqrt{2}$ B) 9 C) 7 D) $9 + \sqrt{2}$

32. $\frac{\sqrt{11}-4}{\sqrt{\sqrt{11}-3}-1} - \frac{\sqrt{11}-12}{\sqrt{\sqrt{11}-3}-3}$ ni toping.

- A) -2 B) 4 C) -4 D) 2

33. $\sqrt{28-10\sqrt{3}} - \frac{1}{\sqrt{7+4\sqrt{3}}}$ ning qiymatini toping.

- A) 3 B) 7 C) $3-2\sqrt{3}$ D) $7-2\sqrt{3}$

1	A	18	D
2	D	19	C
3	B	20	A
4	C	21	D
5	B	22	B
6	B	23	B
7	D	24	C
8	D	25	C
9	B	26	D
10	B	27	C
11	D	28	C
12	A	29	A
13	A	30	C
14	B	31	C
15	C	32	A
16	D	33	A
17	D		

