

Test

1. $\frac{12}{x^2+4x-5} = \frac{A}{x+5} + \frac{B}{x-1}$ ayniyatning nomalum

koeffitsiyentlari ko'paytmasi $A \cdot B$ ni toping

- A) 20 B) 15 C) 10 D) -4

2. Qisqarmaydigan oddiy kasrning maxraji suratidan 3 birlikka katta. Agar kasrning suratiga 1, maxrajiga 2 qo'shilsa, uning qiymati $\frac{2}{3}$ ga teng bo'ladi. Berilgan kasr maxraji quyidagilardan qaysi biriga qoldiqsiz bo'linadi

- A) 5 B) 3 C) 6 D) 8

3. $\frac{0,4(2)-0,2(8)}{0,(8)+0,(7)}$ ning qiymatini toping.

- A) 0,4 B) 0,8 C) 0,36 D) 0,08

4. $(m-3)x+4 = m+x$ tenglik barcha x larda to'g'ri bo'lsa, m ning qiymatini toping. A) 3 B) 4 C) -3 D) -4

5. 5 ta sonning o'rta arifmetigi 13 ga teng. Shu sonlarga qaysi son qo'shilsa, ularning o'rta arifmetigi 14 ga teng bo'ladi 14 ga teng bo'ladi. A) 18 B) 21 C) 17 D) 19

6. 50 % i 35 % idan 105 ga katta bo'lgan sonni toping.

- A) 800 B) 700 C) 650 D) 550 E) 500

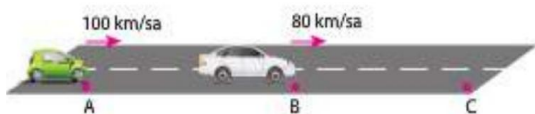
7. A va B nuqtalar orasidagi masofa 400 km bo'lib, A shahardan 30 km/soat tezlik bilan, B shaharda 50 km/soat tezlik bilan ikki mashina bir yotqda bir biriga qarab yo'lga chiqdi, Ularning uchrashish joyi A shahardan necha km uzoqlikda bo'ladi.

- A) 250 km B) 150 km C) 100 km D) 200 km

8. $\begin{cases} 2x + (a-1)y = 3 \\ (a+1)x + 4y = -3 \end{cases}$ sistema cheksiz ko'p yechimga ega bo'lsa, a ning qiymatini toping. A) -3 B) 3 C) ± 3 D) ± 4

9. $f(x)=x$ bo'lsa, $f(ax+b)=(12-3a)x+30-2b$ dan $a+b$ ning qiymatini toping. A) 12 B) 13 C) 15 D) 18 E) 21

10. Mashinalar 3 soatdan keyin C nuqtda uchrashgan bo'lsa, harakat boshlanmasdan oldingi ular orasidagi masofani toping.



- A) 40 B) 50 C) 60 D) 80

11. $95!$ Ifoda natijasi nechta nol bilan tugaydi

- A) 19 B) 20 C) 21 D) 22 E) 23

12. $x^3+y^3=112$ va $x+y=4$ bo'lsa, $3xy$ ko'paytmaning qiymatini toping. A) -12 B) -6 C) -4 D) 12 E) 18

13. $6x^2-ax-6=(3x+b)(cx-3)$ tenglik ayniyat bo'lsa, $a+b+c$ ning qiymatini toping. A) 7 B) 8 C) 9 D) 10 E) 11

14. $81 - (4c - 3)^2$ ifodani ko'paytuvchilarga ajrating. A) $4(3 - 2c)(3 + 2c)$ B) $8(3 - c)(3 + 2c)$ C) $8(c - 3)(3 + 2c)$ D) $4(3 - c)(3 + 2c)$

15. $\frac{[3,5]-[-2,8]}{\{6,01\}} + \left\{\frac{100}{9}\right\}$ ning kasr qismini toping (bu yerda $[a]$ va $\{a\}$ lar sonning butun va kasr qismlari)

- A) 0,2 B) 1/9 C) 2/9 D) 1/3

16. Agar $16-3(2x-3(2-3(1-3x)))=82$ tenglama ildizi uchun x^2-6 ning qiymatini toping. A) -7 B) -6 C) -5 D) 3

17. Kollejda 3 ta guruhda 93 ta o'quvchi bor. Ikkinchi guruhda birinchi guruhning 0,9 qismiga, uchinchi guruhda esa 1,2 qismiga teng o'quvchilar bor. Har bir guruhda qanchadan o'quvchi bor?

- A) 30; 27; 36 B) 36; 30; 27 C) 27; 30; 36 D) 30; 36; 27

18. $a:b:c=2:4:7$ bo'lsa, $\frac{7a+b}{c-2a}$ ning qiymatini toping.

- A) 6 B) 5 C) 4 D) 3

19. Bir ishni Iqbol 6 soatda, Muzaffar esa 9 soatda tugatadi. Ikkalasi birga ish boshlab, ishni yarmini tugatgandan keyin Muzaffar ketib qolsa, ishni tugashi uchun hammasi bo'lib necha soat vaqt sarflangan.

- A) 3,6 B) 5,4 C) 2,8 D) 4,8

20. $P(x)=x^4-3x^3+x^2+(m-2)x+n+3$ ko'phad x^2 ga qoldiqsiz bo'linsa, $m-n$ ning qiymatini toping.

- A) 1 B) 2 C) 4 D) 5

21. $\frac{a^3-b^3}{a^2b+ab^2+b^3} \cdot \frac{2b^2+2ab}{a^2-b^2}$ ni soddalashtiring.

- A) 2 B) 2a C) 2/ab D) 2(a+b)/ab

22. 70 soni o'zidan kichik nechta son bilan o'zaro tub bo'ladi

- A) 48 B) 20 C) 24 D) 20

23. $f(x) = \begin{cases} 3x - a, & x < -2 \\ x^2 + 3, & x \geq -2 \end{cases}$ ifoda berilgan.

Agar $f(1)+f(-3)=13$ bo'lsa, a ning qiymatini toping.

- A) -22 B) -20 C) -18 D) -16

24. $0,\underbrace{0000}_{n \text{ ta}}\dots 002 = 2 \cdot 10^{n-13}$ bo'lsa, n ning qiymatini toping. A) 6 B) 7 C) 8 D) 9

25. $\begin{cases} (m+2)x - 9y = -1 \\ mx + 6y = 5 \end{cases}$ sistema m ning qanday qiymatida yechimga ega emas. A) -3/2 B) -4/3 C) -4/5 D) 3/5

26. $(x^2 + \frac{3}{x})^6$ binom yoyilganda x^9 li hadi oldidagi koeffitsiyenti nimaga teng. A) 18 B) 24 C) 54 D) 90

27. Agar $P(x+1)=(a+2)x^2-3x+1$ va $P(2)=5$ bo'lsa, $P(5)$ ning qiymatini toping. A) 114 B) 84 C) 101 D) 57

28. $\begin{cases} a + b + c = 60 \\ b + c + d = 85 \\ c + d + e = 55 \end{cases}$ bo'lsa, $a+c+e$ ning qiymatini toping. A) 25 B) 30 C) 35 D) 40

29. $\frac{1}{20} + \frac{1}{30} + \frac{1}{42} + \frac{1}{56}$ ning qiymatini toping. A) 1/12 B) 1/10 C) 1/8 D) 1/6

30. Proporsiyaning noma'lum hadini toping. $5,2:4,(3)=2,25:x$ A) 15/8 B) 8/15 C) 17/12 D) 43/20

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

