

1.

	+		-		=	11
÷		+		÷		
A	x	B	x	C	=	24
+		+		+		
	+		x		=	49
=		=		=		
6		24		D		

1 dan 9 gacha bo'lgan raqamlar bo'yalmagan qutilarga faqat bir marta yozilib quyidagi jadval hosil qilinadi. Ushbu jadvaldan foydalanib, $A + B + C + D$ ni qiymatini toping?

A) 9 B) 12 C) 17 D) 19

2. $2016 \cdot (2017 \cdot 2018 + 1)$ ni hisoblang?

A) $2016^3 + 1$ B) $2017^3 - 1$
C) $2018^3 + 1$ D) $2017^3 + 2016$

3. Ifodani soddalashtiring: $\frac{(a+1)^3+1}{a^3-1}$
A) $\frac{a+2}{a-1}$ B) $\frac{a+1}{a-1}$ C) $\frac{a-2}{a+1}$ D) $\frac{a-1}{a+1}$

4. Agar $\text{EKUB}(a; a+1) = 2a-15$ bo'lsa, $\text{EKUB}(a+2; a-3)$ ni toping?
A) 2 B) 3 C) 5 D) 4

5. Ushbu

$(\sqrt{6+\sqrt{35}})^x + (\sqrt{6-\sqrt{35}})^x = 12$ tenglamani ildizlari ko'paytmasini toping.

A) -4 B) -3 C) -1 D) 8

6. Agar $f(2x-1) = \begin{cases} x+1, & x > 1 \\ x^2, & x \leq 1 \end{cases}$ bo'lsa, $f(3) + f(-3)$ ni toping?

A) 1 B) 4 C) 7 D) 13

7. Ushbu $(4x^2 - \frac{1}{\sqrt{2}}y)^9$ ifodani ochib chiqqanimizda bitta hadi $A \cdot x^n y^n$ bo'lsa, A ni toping?

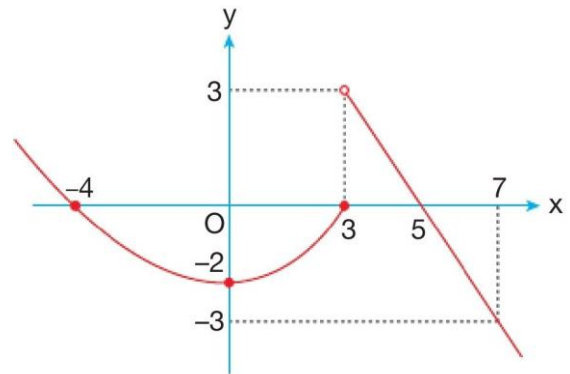
A) $-8C_9^6$ B) $4C_9^6$ C) $-4C_9^6$ D) $8C_9^6$

8. Ushbu $P(x) = (x-1)^{12} + (x+1)^{12}$ ko'phadni $x^2 - x + 1$ ko'phadga

bo'lgandagi qoldiqni toping?

A) $3^6 - 1$ B) $3^6 + 1$ C) $2^6 - 1$ D) $2^6 + 1$

9. Quyidagi rasmda $y = f(x)$ funksiyaning grafigi tasvirlangan.



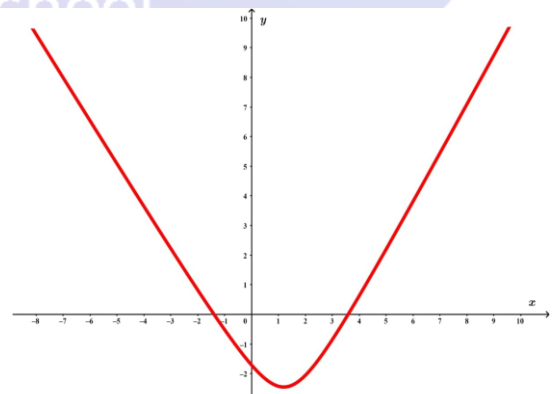
Bunga ko'ra, $\frac{f(5)-f(7)+2f(3)}{3f(0)-2f(-4)}$ ni qiymatini toping? A) $-\frac{3}{2}$ B) -1 C) $-\frac{1}{2}$ D) 2

10. $\frac{n^2+2017n+2018}{n}$ ifoda natural son bo'ladigan n ning nechta tub qiymati bor?
A) 2 B) 4 C) 3 D) 1

11. $x^2(|x-3|+1) = 6x-9$ tenglama nechta haqiqiy yechimga ega?
A) 0 B) 2 C) 4 D) 1

12. Arifmetik progressiyada $\begin{cases} a_1 \cdot a_4 = 22 \\ a_2 \cdot a_3 = 40 \end{cases}$ bo'lsa, a_{12} ning qabul qila oladigan qiymatlari yig'indisini toping?
A) 57 B) -57 C) 22 D) 0

13. Quyidagi chizmada $y = ax^2 + bx + c$ funksiyaning grafigi tasvirlangan bo'lsa, $D = b^2 - 4ac$ va c ning ishoralarini aniqlang?



A) +; + B) -; + C) +; - D) -; -

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14. $y = \frac{17(x-4)}{4-x^{0,25}}$ funksiyaning aniqlanish

sohasini toping?

A) $(-\infty; 4) \cup (4; +\infty)$

B) $[0; 4) \cup (4; +\infty)$

C) $[0; 256) \cup (256; +\infty)$

D) $(-\infty; 256) \cup (256; +\infty)$

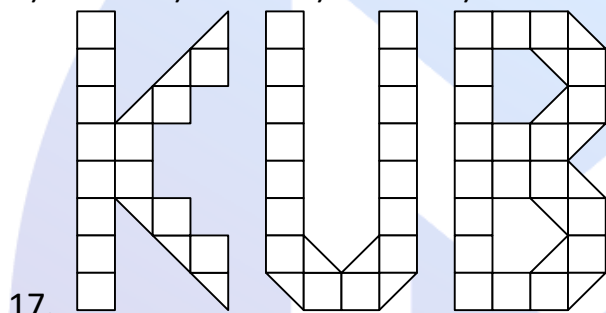
15. Agar $x - y = 7$ va $xy = -6$ bo'lsa, $x^3y + xy^3$ ni toping?

A) -122 B) -202 C) -212 D) -222

16. -16 va -6 sonlar orasiga to'rtta shunday son qo'yildiki, natijada bu olti son arifmetik progressiyani hosil qildi.

Qo'yilgan sonlar yig'indisini toping?

A) -40 B) -48 C) -36 D) -44



17. Rasmda qaysi harf bo'yalsa, rasmning $\frac{17}{59}$ qismi bo'yalgan bo'ladi?

A) K va B B) U C) B D) K

18. Hisoblang:

$$\left(1 - \frac{2}{4}\right)(2! + 3!) + \left(1 - \frac{2}{5}\right)(3! + 4!) + \dots + \left(1 - \frac{2}{2020}\right)(2018! + 2019!)$$

A) 2018! B) 2018 · 2019!

C) 2019! - 2 D) 2018! · 2019

19. x ta x^x ning yig'indisini toping?

A) $2x^x$ B) x^{x^2} C) x^{x+1} D) x^{2x}

20. Agar $2a^2 + 2b^2 = 5ab$ va $b > a > 0$

bo'lsa, $\frac{a+b}{a-b}$ ni toping?

A) -3 B) -2 C) -1 D) -2,5

21. $\begin{cases} |5+x| \leq 9 \\ |2x+5| \geq 13 \end{cases}$ tengsizliklar sistemasi

nechta butun yechimga ega?

A) 7 B) 4 C) 6 D) 5

22. $y = \frac{|x^2-x-12|}{\sqrt{11x-x^2-18}}$ funksiyaning

aniqlanish sohasini toping.

A) (2;9) B) (4;9) C) (2;4] D) (-3;9)

23. a natural soni uchun

$a^2 - 1 = 8^7(2^{19} + 1)$ bo'lsa, $\frac{a-1}{64^3}$ ni

toping.

A) 16 B) 4 C) 8 D) 32

24. $x^2 - 3x + 2n + 7 = 0$ tenglamaning ildizlari x_1 va x_2 bo'lib, ular $x_1 \cdot (5 - x_2) + 5x_2 = 6$ tenglikni qanoatlantirsa, n ni toping.

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

25. $4x^2 + \frac{1}{x^2-4} = 16 - \frac{1}{4-x^2}$ tenglamani yeching?

A) \emptyset B) -2 C) 2 D) 0

26. $\left(2x^2 - \frac{1}{x^2}\right)^7$ ko'phadni ochib chiqsak, bir hadi $p \cdot x^6$ ko'rinishida bo'ldi. Bunga ko'ra p ni toping?

A) 720 B) 672 C) 560 D) 480

27. Agar ushbu $\sqrt{a^2 - 4a + 4} +$

$\sqrt{a^2b^2 - 6ab + 9} +$

$\sqrt{b^2c^2 - 12bc + 36} = 0$ tenglik bajarilsa, $a \cdot b \cdot c$ ni toping?

A) 6 B) 9 C) 12 D) 15

28. $1-(1-(1-(1-\dots-(1-1))))$ ni hisoblang. Bu yerda ochilgan va yopilgan qavslar soni 2025 ta.

A) 2021 B) 0 C) 1 D) 2

29. Tenglama ildizlari yig'indisini toping.

$$\sqrt{2x-7} + \sqrt{3-x} = \sqrt{3-x} + \sqrt{3x+10}$$

A) -3 B) 3 C) ildizga ega emas D) -1

$$30. \frac{3}{x-3} + \frac{5}{x-5} + \frac{17}{x-17} + \frac{19}{x-19} = x^2 -$$

$11x - 4$ ushbu tenglamaning eng katta butun ildizini toping.

A) 19 B) 10 C) 18 D) 11