Fan: Matematika

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

1. $EKUB(a;b)=3$ va $EKUK(a;b)=60$ bo'lsa, $a+b$ yig'indining eng katta qiymatini toping.

- 54
- 72
- 60
- 63

Oldingi Keyingi

Fan: Matematika

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

2. Hisoblang. $\left(\frac{21}{113}-\frac{14}{19}+\frac{7}{8}-\frac{28}{41}\right)+\left(\frac{4}{41}-\frac{1}{8}+\frac{2}{19}-\frac{3}{113}\right):\frac{1}{7}$

- -1
- 2
- 0
- 1

Oldingi Keyingi

Fan: Matematika

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

3. Hisoblang: $\frac{\sqrt{5}+\sqrt{3}}{\sqrt{3}+\sqrt{5}+\sqrt{6}+\sqrt{10}}$

- $\sqrt{2}+1$
- $1-\sqrt{2}$
- $\sqrt{2}+\sqrt{3}$
- $\sqrt{2}-1$

Oldingi Keyingi

Барча фанлардан аттестация саволлари Ўқитувчилар ва ўқувчилар учун тестлар, мактаб дарсликлари ва қизиқарли мақолалар

«Таълим/Образование» саҳифалари:

Telegram - https://t.me/talim_obrazovaniye

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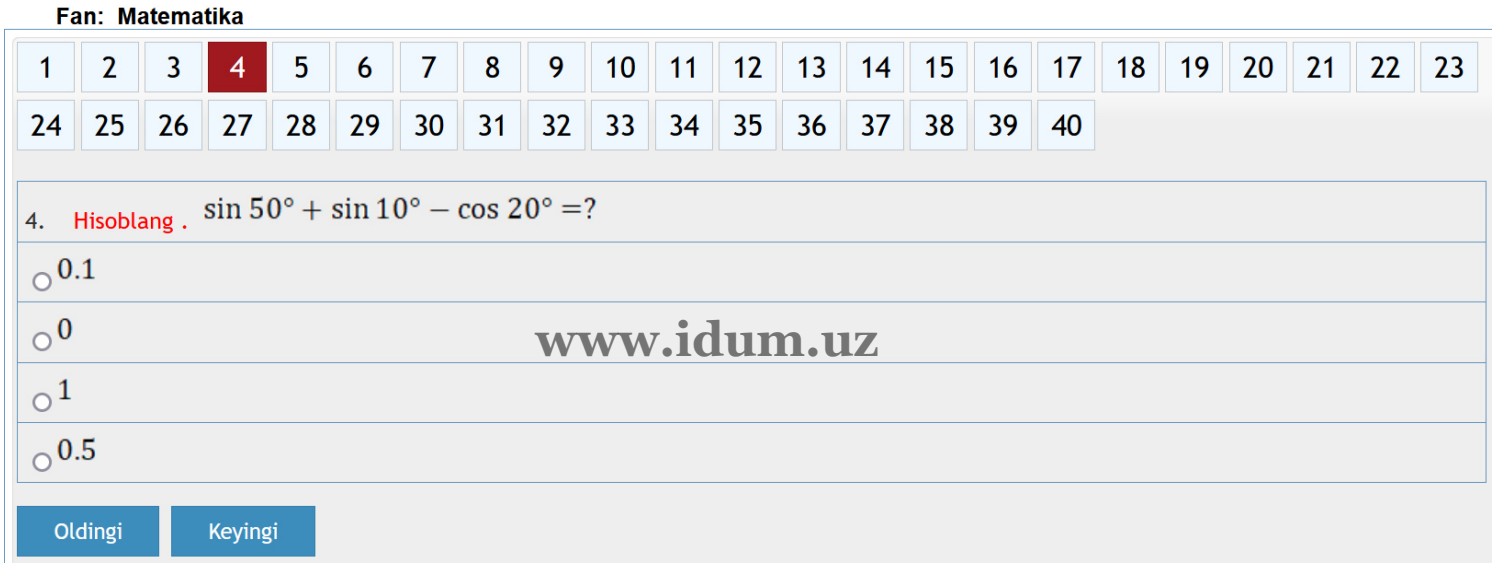
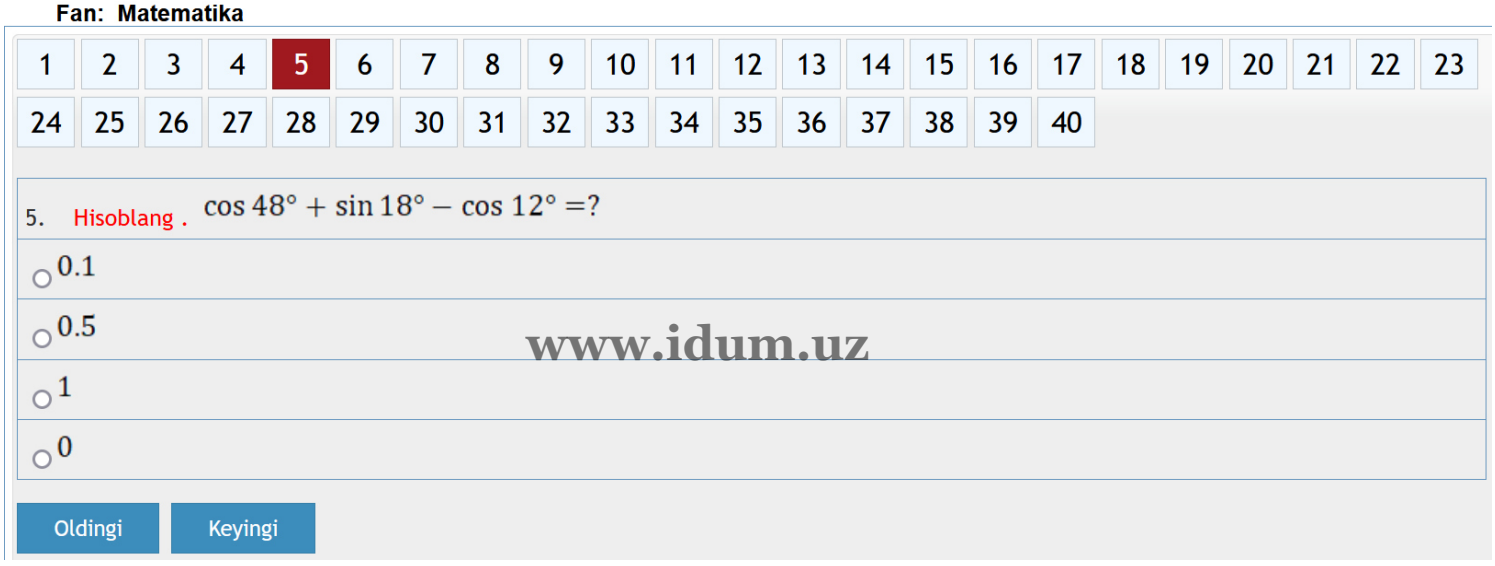
Youtube - https://www.youtube.com/c/talim_obrazovaniye





Fan: Matematika

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

6. 2 ta bola 64 m masofaga yugurish bo'yicha noodatiy ravishda bellashishmoqda. Bellashuv shartiga ko'ra boshlang'ich chiziqdan 3 qadam oldinga yurgandan so'ng, 2 qadam orqaga yurish kerak. 1-bolaning qadami uzunligi 50 sm, 2-bolani qadami uzunligi esa 40 sm, lekin har 3 sekundda: 1-bola 3 marta qadam tashlaydi, 2-si 4 qadam tashlagan bo'lsa, qaysi bola g'alaba qozongan?

- Ikkalasi teng keladi
- 2-bola
- 1-bola
- Aniqlab bo'lmaydi

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Oldingi Keyingi

7. Rasmda tasvirlangan favvora ko'rinishi $y = -x(x+6)$ $ko'rinishida\ bo'lsa$, favvora eng ko'pi bilan qaysi balandlikga ko'tarila oladi. (Koordinata Oy o'qi , suv yuzasida joylashgan)

- $Hisoblab\ bo'lmaydi$
- 6
- 8
- 9

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Oldingi Keyingi

Fan: Matematika

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

8. Ushbu $tg3\alpha = \frac{tg\alpha(3-tg^2\alpha)}{1-3tg^2\alpha}$ tenglik $\alpha = \frac{\pi}{6} + \frac{\pi n}{3}$ da ham to'g'rimi?

- ha
- yo'q

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Oldingi Keyingi

Fan: Matematika

1 2 3 4 5 6 7 8 **9** 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

9. Hisoblang: $0.(7) + 0.0(7) + 0.00(7) + \ldots$

- $\frac{70}{81}$
- $\frac{77}{810}$
- $\frac{71}{91}$
- $\frac{7}{18}$

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Oldingi Keyingi

Fan: Matematika

1 2 3 4 5 6 7 8 9 **10** 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

10. x noma'lum son ($x \neq 3$) uchun $x^2 - \frac{15}{x} = 4$ tenglik o'rinli. $x \cdot (x+1) \cdot (x+2) \cdot (x+3)$ ko'paytmaning qiymati 15 ga teng bo'la oladimi?

- ha
- yo'q

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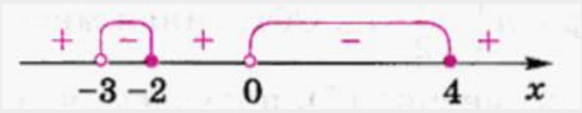
Oldingi Keyingi

Fan: Matematika

1 2 3 4 5 6 7 8 9 10 **11** 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

11. Berilgan $\frac{(x+2)(x-4)}{x(x+3)} < 0$ tengsizlik uchun 

quyidagi oraliqlar to'g'ri ifodalanganmi?

- $yo'q$
- ha

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Oldingi Keyingi

Fan: Matematika

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

12. Agar $f(x) = x^2 - 2020x + 2021$ bo'lsa, quyidagilardan qaysi biri eng kichik?

- $f(1006)$
- $f(1012)$
- $f(1009)$
- $f(2019)$

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Oldingi Keyingi

Fan: Matematika

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

13. Rostgo'ylar va yolg'onchilar orolida gulxan atrofida o'tirgan 7 ta kishi har biri "Men ikki yolg'onchining orasida o'tiribman" deydi. Orolda nechta yolg'onchi bor?

- 3 ta
- 5 ta
- 7 ta
- 4 ta

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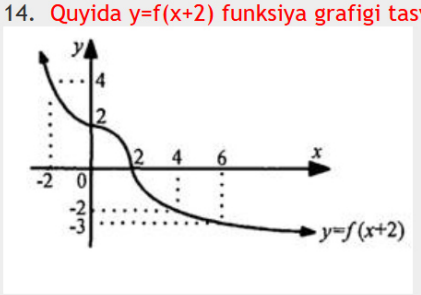
Oldingi Keyingi

14. Quyida y=f(x+2) funksiya grafigi tasvirlangan. Barilgan malumotlardan foydalanib $\frac{f(0)+f(2)}{f(4)+f(6)}$ ning qiymatini toping.



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- -3
- 1
- 2
- 3

Oldingi Keyingi

Fan: Matematika

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

15. Agar $x = 2t + 5, y = 3t - 1$ va f(x)=y(x) bog'lanish mavjud bo'lsa, f(5) ning qiymatini toping.

- 1
- -2
- 2
- -1

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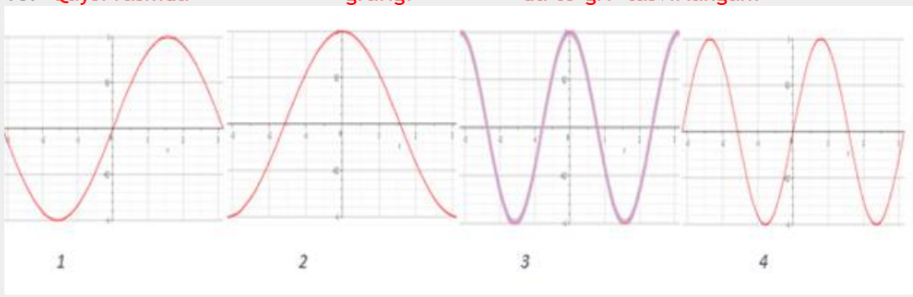
Oldingi Keyingi

16. Qaysi rasmda $y = \sin 2x$ grafigi $[-\pi; \pi]$ da to'gri tasvirlangan.



- 1
- 2
- 3
- 4

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Oldingi Keyingi

Fan: Matematika

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

17. Hisoblang:

$\frac{1}{9} + \frac{2}{5} + \frac{3}{9} + \frac{4}{5} + \frac{5}{9} + \frac{6}{5} + \ldots \frac{17}{9} + \frac{18}{5}$

- 22
- 27
- 24
- 25

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Oldingi Keyingi

Fan: Matematika

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

18. Agar $\log_{12} 27 = a$ bo'lsa, $\log_6 16$ ni a orqali ifodalang.

- $\frac{3-4a}{a+3}$
- $\frac{3-a}{3+a}$
- $\frac{12-4a}{a+3}$
- $\frac{4-4a}{a-3}$

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Oldingi Keyingi

Fan: Matematika

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

19. $a^2 \cdot b \cdot c < 0$, $\frac{a \cdot b}{c} > 0$ va $a \cdot c^3 < 0$ tengsizliklardan foydalanib a, b, c larning ishoralarini aniqlang:

- "$-$","$+$","$-$".
- "$-$","$-$","$+$".
- "$+$","$-$","$+$".
- "$-$","$-$","$-$".

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Oldingi Keyingi

Fan: Matematika

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

20. f(x) va g(x) funksiyalar $f(x) + (x-2) \cdot g(x) = x^2 + 5$ bog'lanishda va $f(3) = 10$ bo'lsa, $g^{-1}(4)$ ning qiymatini toping.($g^{-1}(x) - g(x)$ *ga teskari funksiya)*

- 2
- 3
- 4
- 6

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Oldingi Keyingi

Fan: Matematika

21. $P(x)$ ko'phad berilgan: $P(x) = 3 \cdot x^{n-4} - 5 \cdot x^{\frac{24}{n}} - x^2 + 1$.

n=4 da $P(x)$-ko'phadning ozod hadi 3 ga teng bo'la oladimi?

- ha
- yo'q

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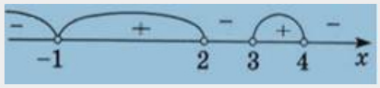
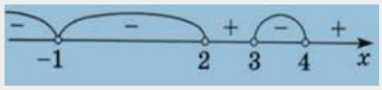
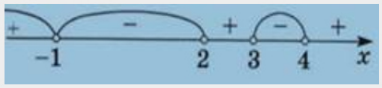
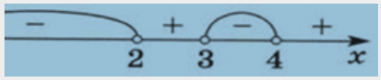
Oldingi Keyingi

22. Qaysi javobda $\frac{(x-3)(x+1)(x-4)}{(x+1)(x-2)} > 0$ tengsizlik ishorasi to'gri ko'rsatilgan :









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Oldingi Keyingi

Fan: Matematika

23. Poyezda 5 ta vagon va har bir vagonda kamida 1 ta yo'lovchi bor. Ikkita yo'lovchi bitta vagonda yoki ketma-ketma kelgan vagonda bo'lsa, qo'shni deb ataladi. Har bir yo'lovchining aniq 5 ta yoki aniq 10 ta qo'shnisi mavjud bo'lsa, poyezdda jami nechta yo'lovchi bor?

- 13
- 17
- 10
- 20

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Oldingi Keyingi

Fan: Matematika

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

24. Rasmda keltirilgan ma‘lumot asosida bitta yashil sharni nechta kub bilan almashtirish mumkinligini toping?

- 3
- 2
- 1
- 4

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Oldingi Keyingi

Fan: Matematika

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

25. Hisoblang: $\frac{1}{\log_2 30}+\frac{1}{\log_3 30}+\frac{1}{\log_5 30}$

- 3
- 1
- 2
- 0

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Oldingi Keyingi

Fan: Matematika

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

26. Agar $x^4-5x^2-5=0$ bo’lsa, $\frac{1}{x^2}+\frac{1}{x^4}$ ni qiymatini toping.

- $\frac{1}{5}$
- $\frac{1}{25}$
- 5
- 1

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Oldingi Keyingi

Fan: Matematika

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

27. Agar $\begin{cases} 2x \cdot (x+y-z) = 1 \\ 3y \cdot (x+y-z) = 2 \\ 4z \cdot (x+y-z) = 3 \end{cases}$ bo'lsa, $(x+y)^2 - z^2$ ning qiymatini toping.

- $\frac{11}{12}$
- $\frac{1}{6}$
- $\frac{23}{12}$
- $\frac{1}{2}$

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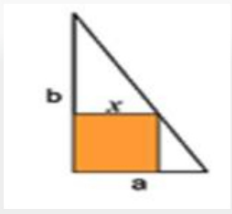
Oldingi Keyingi

Fan: Matematika

28. 

To'g'ri burchakli uchburchakka kvadrat ichki chizilgan (rasmga qarang). Kvadrat tomonini to'g'ri to'rtburchak katetlari orqali ifodalang.

- $\frac{a-b}{2ab}$
- $\frac{ab}{a-b}$
- $\frac{a+b}{ab}$
- $\frac{ab}{a+b}$

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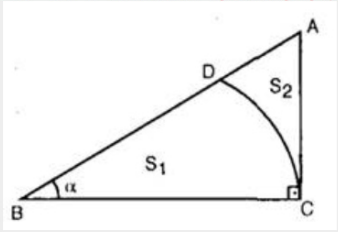
Oldingi Keyingi

29. DC-B markazli aylana yoyi, AC-urinma, AB-kesuvchi va $S_1 = 2S_2$ ekanligi ma'lum bo'lsa, $\frac{tg\alpha}{\alpha}$ ni toping.



- 1
- 2
- $\frac{3}{2}$
- $\frac{5}{2}$

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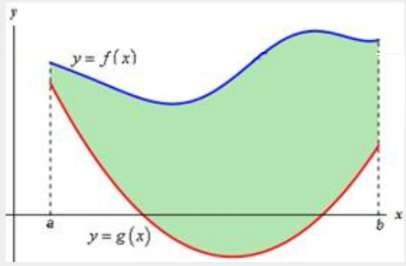
Oldingi Keyingi

Fan: Matematika



30. Berilgan yuza qaysi javobda to‘g‘ri ko‘rsatilgan?

- $\int_a^b (f(x)-g(x))^2 dx$
- $\frac{1}{2}\int_a^b (f(x)-g(x))dx$
- $\int_b^a (f(x)-g(x))dx$
- $\int_b^a (g(x)-f(x))dx$

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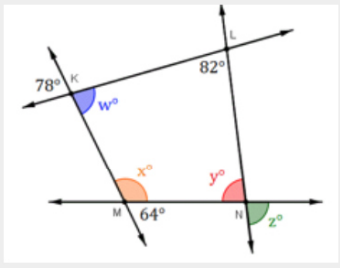
Oldingi Keyingi

Fan: Matematika



31. Berilgan chizmadan z° ning gradus o‘lchamini toping.

- 72
- 84
- 86
- 76

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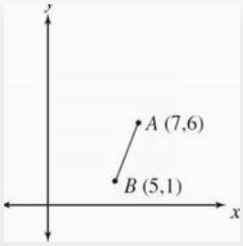
Oldingi Keyingi

Fan: Matematika

32. *AB* masofani toping ?



- $\sqrt{24}$
- $\sqrt{27}$
- $\sqrt{29}$
- $\sqrt{30}$

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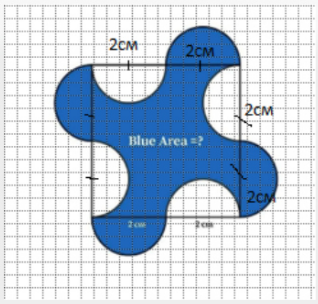
33. 

Bo‘yalgan yuzani toping. (cm^2)

- 18
- *Aniqlab bo'lmaydi*
- 16
- 12

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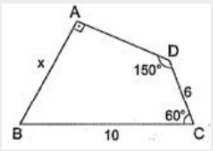
Oldingi Keyingi

Fan: Matematika

34. Chizmadagi ma’lumotlardan foydalanib *x* ning qiymatini toping.



- $\sqrt{90}$
- $\sqrt{80}$
- 9
- 8

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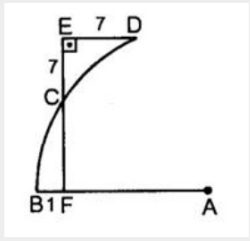
Oldingi Keyingi

Fan: Matematika

35. *BCD-A* markazli aylananing yoyi, $ED//BA$, *DE⊥EF, EC=ED=7 va BF=1 bo'lsa, AF* ning qiymatini toping.



- 13
- 15
- 15
- 12

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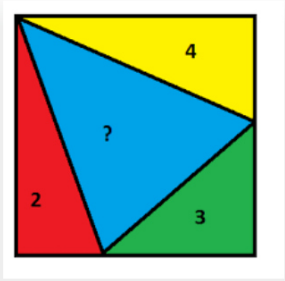
Oldingi Keyingi

36. 

Kvadrat rasmdagi kabi 4 ta uchburchakka ajratilgan , 3 ta uchburchakning yuzlari mos ravishda 2, 3, 4 ga teng . Berilgan shakldagi no'malum yuzani toping.

- Aniqlab bo'lmaydi
- 8
- 7
- 10

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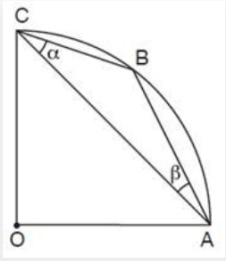
Oldingi Keyingi

37. Berilgan chizmadan foydalanib $\alpha + \beta$ ning qiymatini toping:



- 60°
- 75°
- 45°
- 30°

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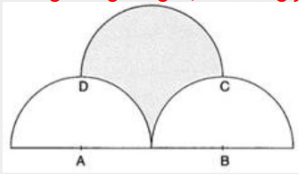
Oldingi Keyingi

38. Quyidagi chizmada tasvirlangan radiusi 4 ga teng bo'lgan, 3 ta teng yarim aylanadagi *A, B, C, D* nuqtalar to'g'ri to'rtburchakning uchlari deb qabul qiling va bo'yalgan sohani yuzini toping.



- 12π
- 32
- 24
- 8π

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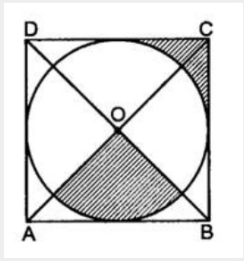
Oldingi Keyingi



39. *O* markazli aylana tomoni 8 ga teng bo'lgan *ABCD* kvadratga ichki chizilgan bo'lsa, bo'yalgan sohani yuzini toping.

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- 12
- 24

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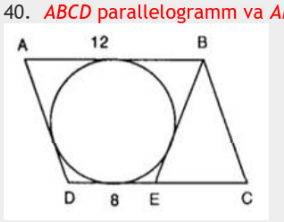
Fan: Matematika

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
28 29 30 31 32 33 34 35 36 37 38 39 40

40. *ABCD* parallelogramm va *ABED* to'rtburchakka aylana ichki chizilgan. Agar *DE*=8, *AB*=12 bo'lsa, *BEC* uchburchakning perimetrini toping.



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Барча фанлардан аттестация саволлари Ўқитувчилар ва ўқувчилар учун тестлар, мактаб дарсликлари ва қизиқарли мақолалар

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