

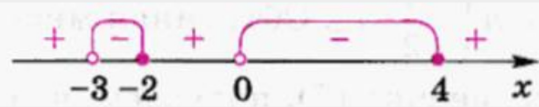
Fan: Matematika

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24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

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

to'g'ri ifodalanganmi?

tengsizlik uchun



quyidagi oraliqlar

☐ yo'q

☐ ha

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

☐ 3 ta

☐ 5 ta

☐ 4 ta

☐ 7 ta

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

☐ $f(1012)$

☐ $f(1009)$

☐ $f(1006)$

☐ $f(2019)$

Oldingi

Keyingi

Fan: Matematika

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4. 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?

☐ yo'q

☐ ha

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

Веб сайт - www.idum.uz

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

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

☐ $\frac{4-4a}{a-3}$

☐ $\frac{3-4a}{a+3}$

☐ $\frac{12-4a}{a+3}$

☐ $\frac{3-a}{3+a}$

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Oldingi Keyingi

Fan: Matematika

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24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

6. Hisoblang: $0.(7) + 0.0(7) + 0.00(7) + \dots$

☐ $\frac{7}{18}$

☐ $\frac{77}{810}$

☐ $\frac{71}{91}$

☐ $\frac{70}{81}$

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Oldingi Keyingi

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7. 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

☐ 20

☐ 10

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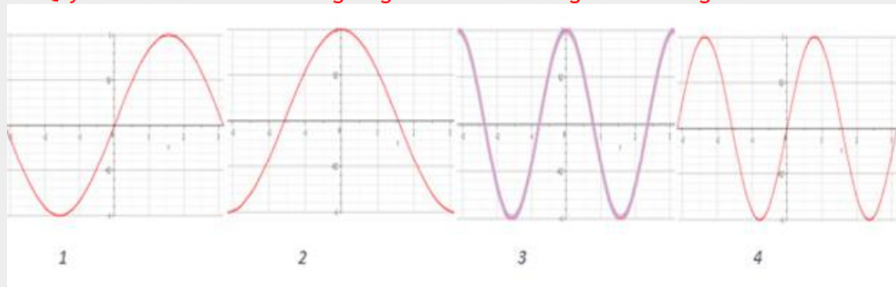
Oldingi

Keyingi

Fan: Matematika

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



☐ 3

☐ 4

☐ 2

☐ 1

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Oldingi

Keyingi

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

☐ " - ", " + ", " - ".

☐ " + ", " - ", " + ".

☐ " - ", " - ", " + ".

☐ " - ", " - ", " - ".

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Oldingi

Keyingi

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24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

10. Hisoblang:

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

☐ 24

☐ 22

☐ 25

☐ 27

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Oldingi

Keyingi

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24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

11. Hisoblang . $\sin 50^\circ + \sin 10^\circ - \cos 20^\circ = ?$

☐ 1

☐ 0.1

☐ 0

☐ 0.5

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Oldingi

Keyingi



12. 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)

☐ 6

☐ 8

☐ Hisoblab bo'lmaydi

☐ 9

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Oldingi

Keyingi

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13. $f(x)$ 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)

☐ 3

☐ 2

☐ 4

☐ 6

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Oldingi

Keyingi

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

☐ $\sqrt{2} - 1$

☐ $\sqrt{2} + \sqrt{3}$

☐ $1 - \sqrt{2}$

☐ $\sqrt{2} + 1$

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Oldingi

Keyingi

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15. $P(x)$ 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?

☐ yo'q

☐ ha

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Oldingi

Keyingi

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16. 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.

☐ $\frac{1}{2}$

☐ $\frac{11}{12}$

☐ $\frac{23}{12}$

☐ $\frac{1}{6}$

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Oldingi

Keyingi

Fan: Matematika

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

☐ 54

☐ 60

☐ 63

☐ 72

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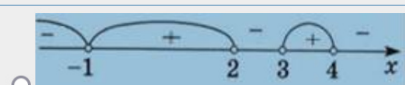
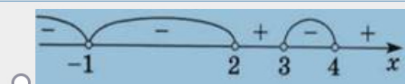
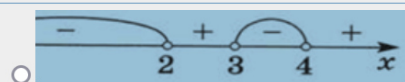
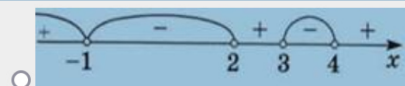
Oldingi

Keyingi

Fan: Matematika

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



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Keyingi

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24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

19. Hisoblang . $\cos 48^\circ + \sin 18^\circ - \cos 12^\circ = ?$

- ☐ 0.5
- ☐ 0
- ☐ 1
- ☐ 0.1

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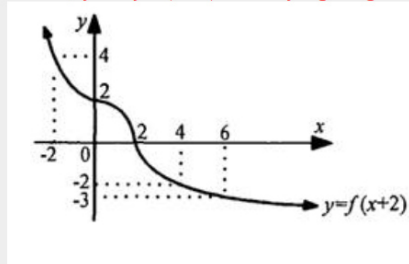
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20. Quyida $y=f(x+2)$ funksiya grafigi tasvirlangan. Barilgan malumotlardan foydalanib $\frac{f(0)+f(2)}{f(4)+f(6)}$ ning qiymatini toping.



- ☐ 2
- ☐ 3
- ☐ 1
- ☐ -3

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Oldingi

Keyingi

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

- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 1

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Oldingi

Keyingi

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

☐ 2

☐ -1

☐ 1

☐ -2

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Oldingi

Keyingi

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24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

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

☐ 2

☐ 0

☐ 3

☐ 1

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Oldingi

Keyingi

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24. 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 sekunda: 1-bola 3 marta qadam tashlaydi, 2-si 4 qadam tashlagan bo'lsa, qaysi bola g'alaba qozongan?

☐ Ikkalasi teng keladi

☐ Aniqlab bo'lmaydi

☐ 1-bola

☐ 2-bola

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Oldingi

Keyingi

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

☐ 1

☐ 5

☐ $\frac{1}{25}$

☐ $\frac{1}{5}$

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Oldingi

Keyingi

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26. 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

☐ -1

☐ 0

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Oldingi

Keyingi

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

☐ yo'q

☐ ha

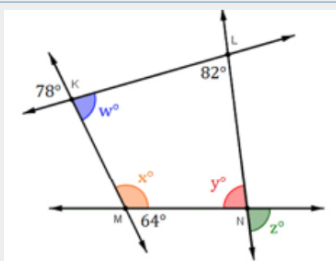
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28. Berilgan chizmadan z° ning gradus o'lchamini toping.

☐ 84

☐ 86

☐ 72

☐ 76

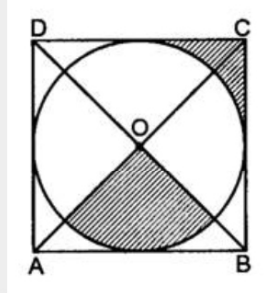
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29. O markazli aylana tomoni 8 ga teng bo'lgan $ABCD$ kvadratga ichki chizilgan bo'lsa, bo'yalgan sohani yuzini toping.



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☐ 24

☐ 32

☐ 16

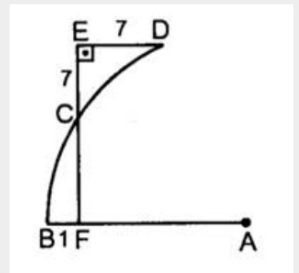
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Oldingi

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30. BCD - A markazli aylananing yoyi, $ED \parallel BA$, $DE \perp EF$, $EC = ED = 7$ va $BF = 1$ bo'lsa, AF ning qiymatini toping.

☐ 15

☐ 13

☐ 15

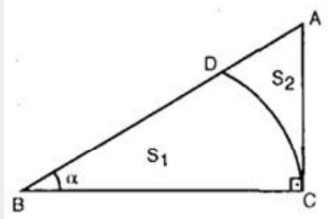
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Oldingi

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31. 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.



☐ $\frac{5}{2}$

☐ 2

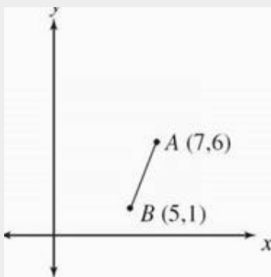
☐ 1

☐ $\frac{3}{2}$

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Oldingi Kevingi

32. AB masofani toping ?



☐ $\sqrt{27}$

☐ $\sqrt{29}$

☐ $\sqrt{24}$

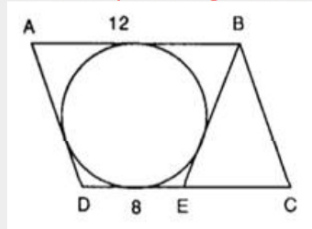
☐ $\sqrt{30}$

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Oldingi Kevingi

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24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						

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



☐ 27

☐ 25

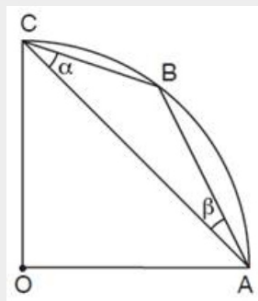
☐ 24

☐ 22

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Oldingi

Keyingi



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

☐ 60°

☐ 75°

☐ 30°

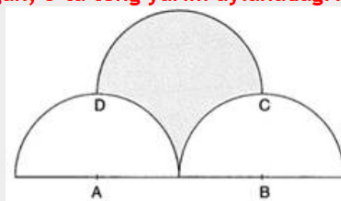
☐ 45°

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Oldingi

Keyingi

35. 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.

☐ 32

☐ 12π

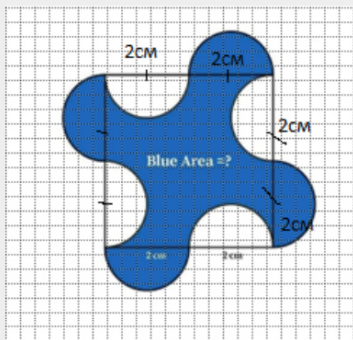
☐ 8π

☐ 24

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Oldingi

Keyingi



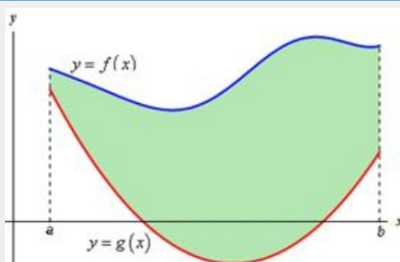
36. Bo'yalgan yuzani toping. (cm²)

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

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Oldingi

Keyingi



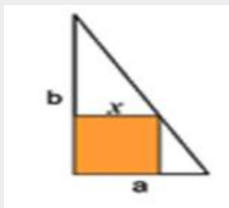
37. Berilgan yuza qaysi javobda to'g'ri ko'rsatilgan?

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

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

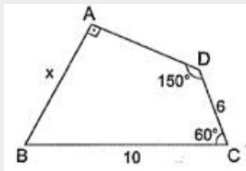
- ☐ $\frac{ab}{a-b}$
- ☐ $\frac{a+b}{ab}$
- ☐ $\frac{a-b}{2ab}$
- ☐ $\frac{ab}{a+b}$

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39. Chizmadagi ma'lumotlardan foydalanib x ning qiymatini toping.



☐ $\sqrt{90}$

☐ $\sqrt{80}$

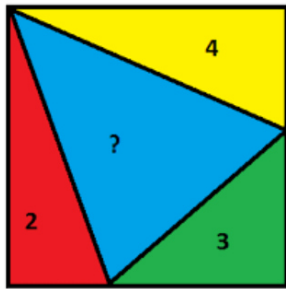
☐ 8

☐ 9

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40. 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

☐ 7

☐ 8

☐ 10

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

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