OCHIQ MATEMATIKA OLIMPIADASI

Mezon Inspiring School

6 sinf

29 mart 2025

1. Hisoblang: (1000-1)(1000-2)(1000-3)…(1000-2000)

   Yechim:

   Javob: _____

2. Tenglama koeffitsiyentlarining yig'indisini toping: $(x^2 -x+1)^{100}$

   Yechim:

   Javob: _____

3. Berilgan tenglamaning qiymatini toping: $666^2+555^2+444^2+222^2=x^2$.

   Yechim:

   Javob: _____

4. Tenglamalar sistemasini yeching: $\begin{cases} a+b+e+d=7 \\ b+d+c+e=6 \\ d+a+c+e=3 \\ b+c+e+a=0 \\ d+a+b+c=4 \end{cases}$

Yechim:

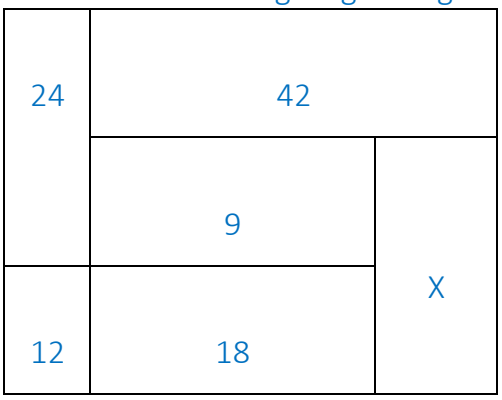
Javob:_____

5. Agar $\frac{1}{x+2023}=2022$, bo'lsa, $\frac{1}{x+2025}$ ni hisoblang.

Yechim:

Javob:_____

6. Ushbu to‘g‘ri to‘rtburchakning bo‘linishida uning qismlarining Yuzasi (S) ko‘rsatilgan. X harfi bilan belgilangan to‘g‘ri to‘rtburchakning Yuzasi (S)ni aniqlang.



Yechim:

Javob: _____

7. $\frac{a+b}{a-b} = 6$ ekanligi ma’lum, unda $\frac{b}{a}$ ning qiymatini hisoblang

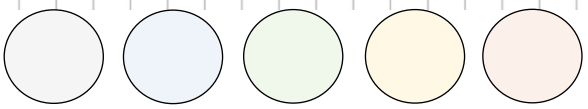
Yechim:

Javob: _____

8. Tenglamani qanoatlantiradigan butun sonlar (x, y) juftligini toping: $7x^2+4y^2=539$

Yechim:

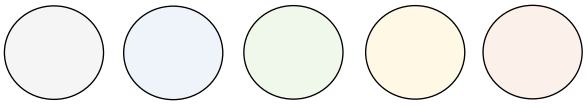
Javob: _____



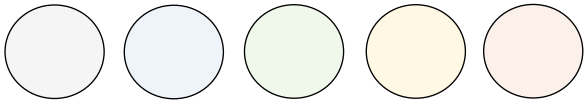
9. (2^9+2^{99}) sonini 100 ga bo'lgandagi qoldiqni toping.

Yechim:

Javob: _____



10. Berilgan sonning oxirgi raqamini toping: 123456789^{2025}

Yechim:

Javob: _____