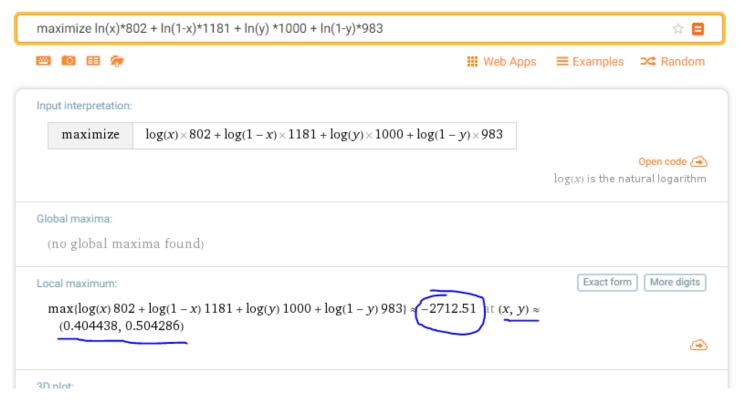
N5. Theoremore: $J(x) = \begin{cases} \frac{1}{6-a}, & x \in [a;b] \\ 0, & x \notin [a;b] \end{cases}$ P-a realgorogodue: $L(X_{[n]}) = \prod_{i=1}^{n} J(X_i) = \begin{cases} \frac{1}{(b-a)^n}, & ease \forall i : x_i \in [a;b], \\ 0, & \exists i : x_i \notin [a;b]. \end{cases}$ Hareway upyen qp-to repal gorogodue: $L(X_{[n]}) = \prod_{i=1}^{n} J(X_i) = \begin{cases} \frac{1}{(b-a)^n}, & \text{ease } \forall i : x_i \in [a;b], \\ 0, & \exists i : x_i \notin [a;b]. \end{cases}$ Hareway upyen qp-to repal gorogodue: $L(X_{[n]}) = \prod_{i=1}^{n} J(X_i) = \int_{a}^{b} J(x_i) \int_{a}^{b} J($

N6. E(X1) = a+b + a =) Oyenka cukujenna.

Код для коэффициентов аналогичен коду в задаче 10.

Максимизируем в wolframalpha.





ln(pw:n)·n + ln(1-pw:n)m + ln(pgo-w)·k + ln(1-pgo-w)l+

+ ln(pgo-l)·4 + ln(1-pgo-4)·f

n - koi-lo "i"

K - koi-lo expok e novegnesie "W"- yxoger nocie nosepor

l - \(\subseteq \) (koi-lo b i expoke "W" \(\sep \) pociegieno quesena expoku)

U = kak (R), resono + "W"

f - kon (L) rano + "i".

```
Код:
        let lines =
            System.IO.File.ReadAllLines("casino.txt")
            > Array.map(fun x -> x.Split([|'\t'|]))
        > Array.sumBy(fun x ->
            > Array.sumBy(fun y -> if y = "W" then 1 else 0)
        > (fun x -> printfn "n = %i" x)
        lines
        > Array.sumBy(fun x ->
            \Rightarrow Array.sumBy(fun y -> if y = "L" then 1 else 0)
        |> (fun x -> printfn "m = %i" x)
        lines
     > Array.sumBy(fun x -> if x.[x.Length - 1] = "W" then 1 else 0)
        > (fun x -> printfn "k = %i" x)
        lines
        > Array.sumBy(fun x ->
            if x.Length < 1 then 0 else
            x.[0..x.Length - 2]
            > Array.sumBy(fun y -> if y = "W" then 1 else 0)
        > (fun x -> printfn "l = %i" x)
        lines
     > Array.sumBy(fun x -> if x.[x.Length - 1] = "L" then 1 else 0)
        > (fun x -> printfn "u = %i" x)
        lines
        > Array.sumBy(fun x ->
            if x.Length < 1 then 0 else
            x.[0..x.Length - 2]
            > Array.sumBy(fun y -> if y = "L" then 1 else 0)
        |> (fun x -> printfn "f = %i" x)
Результат:
PS D:\code\statistics\2> fsi .\calc.fsx
n = 802
m = 1181
  = 176
```

```
= 626
= 824
  357
```



