«Математические основания алгоритмов и сложность вычислений»

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Оглавление

Решение.
Автор данной статьи решил одну из важнейших задач последнего тысячелетия. В связи с этим он хотел нанять профессионального переводчика, который сделал бы эту статью подходящей для публикации в популярном научном журнале. Автор надеялся заработать много денег, чтобы прожить жизнь безбедно, но на данный момент у него нет денег даже на переводчика, поэтому была совершенна отчаянная попытка перевести самому. Автор надеется, что мировое сообщество математиков примет данную статью, поймет ее и заплатит ему много денег.

Отдельные благодарности от автора за помощь в создании статьи

1. Перуну - великому богу-громовержцу
2. Байкальской водице, выпив которую автор преисполнился в своем познании математического анализа.
3. Лечащему врачу в психиатрическое больнице №7, который ухаживал за автором во время написания статьи.

Перейдем к самой статье.
According to legend, the ancient Rus were able to defeat the lizardsby taking this derivative:

(1)

$$\left(\frac{\cos x}{(x+1.00)^{2.00}}\right)^{\sin x} + \frac{x}{2.00}$$

Let's take the derivative of:

(2)

$$x$$

Nikto ne zametit, chto ya ne smog perevesti eto dlya svoe' stat'i . It is:

(3)

1.00
Let's take the derivative of:

(4)

$\cos x$
Don't ask me to prove this . It is:

(5)

$-1.00 \cdot \sin x \cdot 1.00$
Let's take the derivative of:

(6)

x
Perun sent me the solution and I don't have no right to not to believe . It is:

(7)

1.00
Let's take the derivative of:

(8)

1.00
Even a monkey can learn how to do it, why won't you do it by yourself?. It is:

(9)

0.00
Let's take the derivative of:

(10)

$x + 1.00$
I have a proof of this transformation, but there is not enough space in this margin . It is:

(11)

$1.00 + 0.00$
Let's take the derivative of:

(12)

$(x + 1.00)^{2.00}$
Nikto ne zametit, chto ya ne smog perevesti eto dlya svoe' stat'i . It is:

(13)

$2.00 \cdot (1.00 + 0.00) \cdot (x + 1.00)^{2.00-1.00}$
Let's take the derivative of:

(14)

$\frac{\cos x}{(x+1.00)^{2.00}}$
Bez kommentariev . It is:

(15)

$\frac{-1.00 \cdot \sin x \cdot 1.00 \cdot (x+1.00)^{2.00} - \cos x \cdot 2.00 \cdot (1.00+0.00) \cdot (x+1.00)^{2.00-1.00}}{((x+1.00)^{2.00})^{2.00}}$
Let's take the derivative of:

(16)

x
I have a proof of this transformation, but there is not enough space in this margin . It is:

(17)

1.00
Let's take the derivative of:

(18)

$\sin x$
Perun sent me the solution and I don't have no right to not to believe . It is:

(19)

$\cos x \cdot 1.00$
Let's take the derivative of:

(20)

$(\frac{\cos x}{(x+1.00)^{2.00}})^{\sin x}$
If you're reading this - why?. It is:

(21)

$$(\frac{\cos x}{(x+1.00)^{2.00}})^{\sin x} \cdot (\sin x \cdot \frac{\frac{-1.00 \cdot \sin x \cdot 1.00 \cdot (x+1.00)^{2.00} - \cos x \cdot 2.00 \cdot (1.00+0.00) \cdot (x+1.00)^{2.00-1.00}}{((x+1.00)^{2.00})^{2.00}}}{\frac{\cos x}{(x+1.00)^{2.00}}} + \ln \frac{\cos x}{(x+1.00)^{2.00}} \cdot \cos x \cdot 1.00)$$

Let's take the derivative of:

(22)

x

Even a monkey can learn how to do it, why won't you do it by yourself?. It is:

(23)

1.00

Let's take the derivative of:

(24)

2.00

Even a monkey can learn how to do it, why won't you do it by yourself?. It is:

(25)

0.00

Let's take the derivative of:

(26)

$\frac{x}{2.00}$

Nikto ne zametit, chto ya ne smog perevesti eto dlya svoe' stat'i . It is:

(27)

$\frac{1.00 \cdot 2.00 - x \cdot 0.00}{2.00^{2.00}}$

Let's take the derivative of:

(28)

$(\frac{\cos x}{(x+1.00)^{2.00}})^{\sin x} + \frac{x}{2.00}$

I have a proof of this transformation, but there is not enough space in this margin . It is:

(29)

$(\frac{\cos x}{(x+1.00)^{2.00}})^{\sin x} \cdot (\sin x \cdot \frac{\frac{-1.00 \cdot \sin x \cdot 1.00 \cdot (x+1.00)^{2.00} - \cos x \cdot 2.00 \cdot (1.00+0.00) \cdot (x+1.00)^{2.00-1.00}}{((x+1.00)^{2.00})^{2.00}}}{\frac{\cos x}{(x+1.00)^{2.00}}} + \ln \frac{\cos x}{(x+1.00)^{2.00}} \cdot \cos x \cdot 1.00) + \frac{1.00 \cdot 2.00 - x \cdot 0.00}{2.00^{2.00}}$

The ancient Rus, like us, got this result

(30)

$(\frac{\cos x}{(x+1.00)^{2.00}})^{\sin x} \cdot (\sin x \cdot \frac{\frac{-1.00 \cdot \sin x \cdot 1.00 \cdot (x+1.00)^{2.00} - \cos x \cdot 2.00 \cdot (1.00+0.00) \cdot (x+1.00)^{2.00-1.00}}{((x+1.00)^{2.00})^{2.00}}}{\frac{\cos x}{(x+1.00)^{2.00}}} + \ln \frac{\cos x}{(x+1.00)^{2.00}} \cdot \cos x \cdot 1.00) + \frac{1.00 \cdot 2.00 - x \cdot 0.00}{2.00^{2.00}}$

No one gives a **** what's going on here, but according to the standards I have to say it - "Ya sobirayus uprostit virazhenie))))".Let's simplify this expression:

(31)

$1.00 + 0.00$

No one is reading, so I'm gonna say that I hate calculus . It is:

(32)

1.00

Let's simplify this expression:

(33)

$2.00 \cdot 1.00$

Kind of obvious expression transformation . It is:

(34)

2.00

Let's simplify this expression:

(35)

$2.00 - 1.00$

Don't ask me to prove this . It is:

(36)

1.00

Let's simplify this expression:

(37)

$1.00 \cdot 2.00$
C'mon guys, it's not rocket science . It is:

(38)

2.00
Let's simplify this expression:

(39)

$2.00^{2.00}$
Nikto ne zametit, chto ya ne smog perevesti eto dlya svoe' stat'i . It is:

(40)

4.00
Slozhno ne ponyat, chto delat s etim:

(41)

$\sin x \cdot 1.00$
Perun sent me the solution and I don't have no right to not to believe . It is:

(42)

$\sin x$
Slozhno ne ponyat, chto delat s etim:

(43)

$(x + 1.00)^{1.00}$
Perun sent me the solution and I don't have no right to not to believe . It is:

(44)

$x + 1.00$
Slozhno ne ponyat, chto delat s etim:

(45)

$\cos x \cdot 1.00$
Don't ask me to prove this . It is:

(46)

$\cos x$

Let's use the theorem ...(The author of the ranslation does not know which theorem is used, you are left to guess for yourself

(47)

$x \cdot 0.00$

Explanation is available only for premium subscribers.You can become one of them - it costs only 5 bucks a week. It is:

(48)

0.00

Slozhno ne ponyat, chto delat s etim:

(49)

$2.00 - 0.00$

Don't ask me to prove this . It is:

(50)

2.00

Let's simplify this expression:

(51)

$\frac{2.00}{4.00}$

Explanation is available only for premium subscribers.You can become one of them - it costs only 5 bucks a week. It is:

(52)

0.50

Final expression after simplifications:

(53)

$$(\frac{\cos x}{(x+1.00)^{2.00}})^{\sin x} \cdot (\sin x \cdot \frac{\frac{-1.00 \cdot \sin x \cdot (x+1.00)^{2.00} - \cos x \cdot 2.00 \cdot (x+1.00)}{((x+1.00)^{2.00})^{2.00}}}{\frac{\cos x}{(x+1.00)^{2.00}}} + \ln \frac{\cos x}{(x+1.00)^{2.00}} \cdot \cos x) +$$

0.50

Result differentiate answer:

(54)

$$(\frac{\cos x}{(x+1.00)^{2.00}})^{\sin x} \cdot (\sin x \cdot \frac{\frac{-1.00 \cdot \sin x \cdot (x+1.00)^{2.00} - \cos x \cdot 2.00 \cdot (x+1.00)}{((x+1.00)^{2.00})^{2.00}}}{\frac{\cos x}{(x+1.00)^{2.00}}} + \ln \frac{\cos x}{(x+1.00)^{2.00}} \cdot \cos x) + 0.50$$

Derivative in 0:

(55)

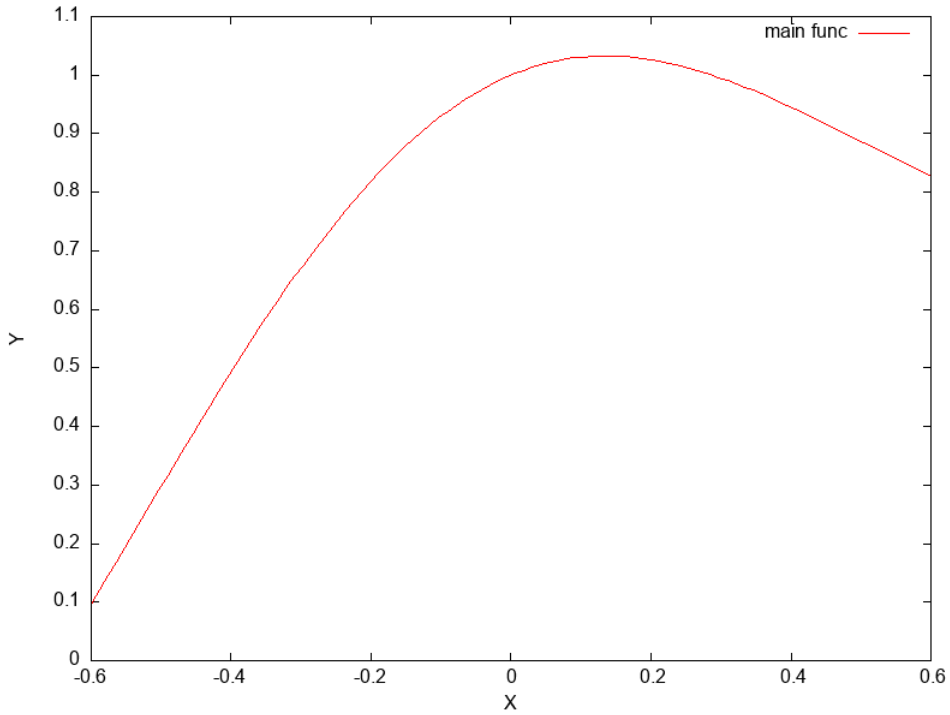
$$0.50 \cdot x + 1.00$$

Macloren series:

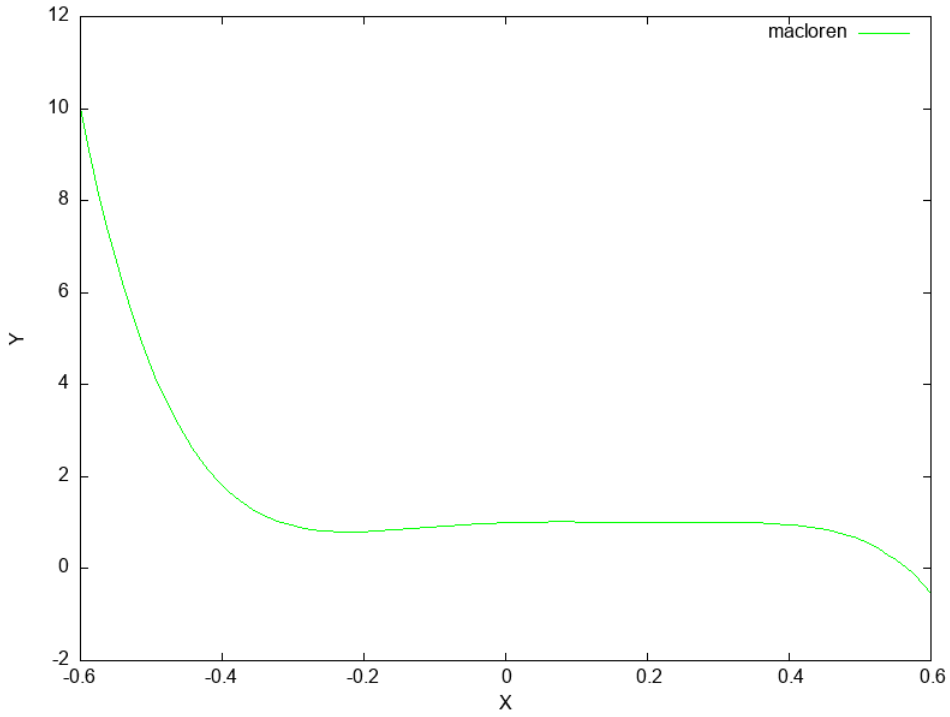
(56)

$$1.00 + 0.50 \cdot x + -4.00 \cdot x^{2.00} + 3.00 \cdot x^{3.00} + 40.00 \cdot x^{4.00} + -80.00 \cdot x^{5.00}$$

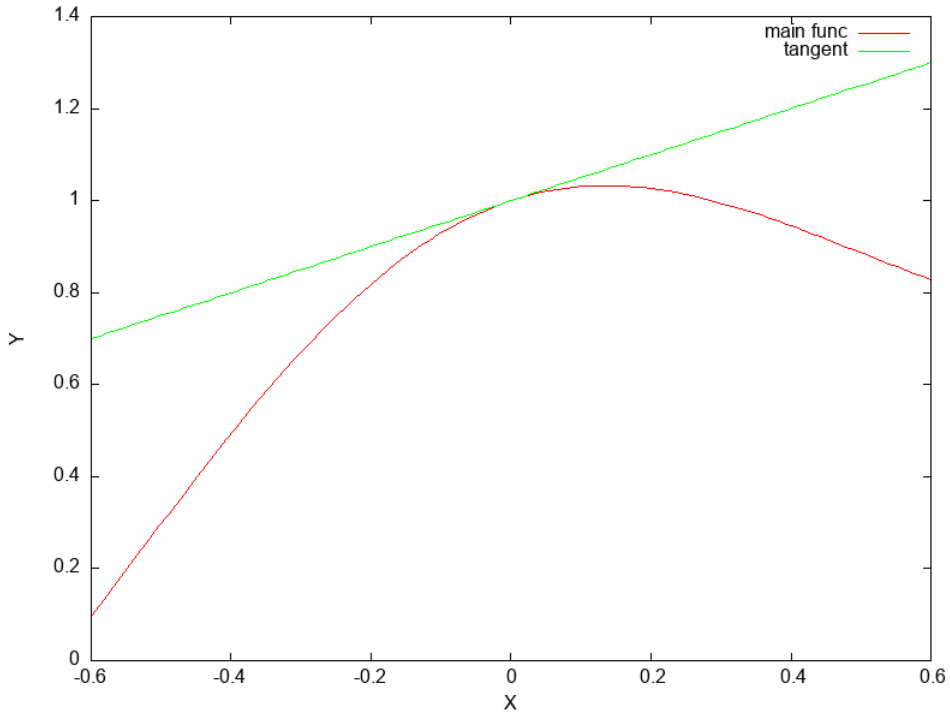
Function graph:



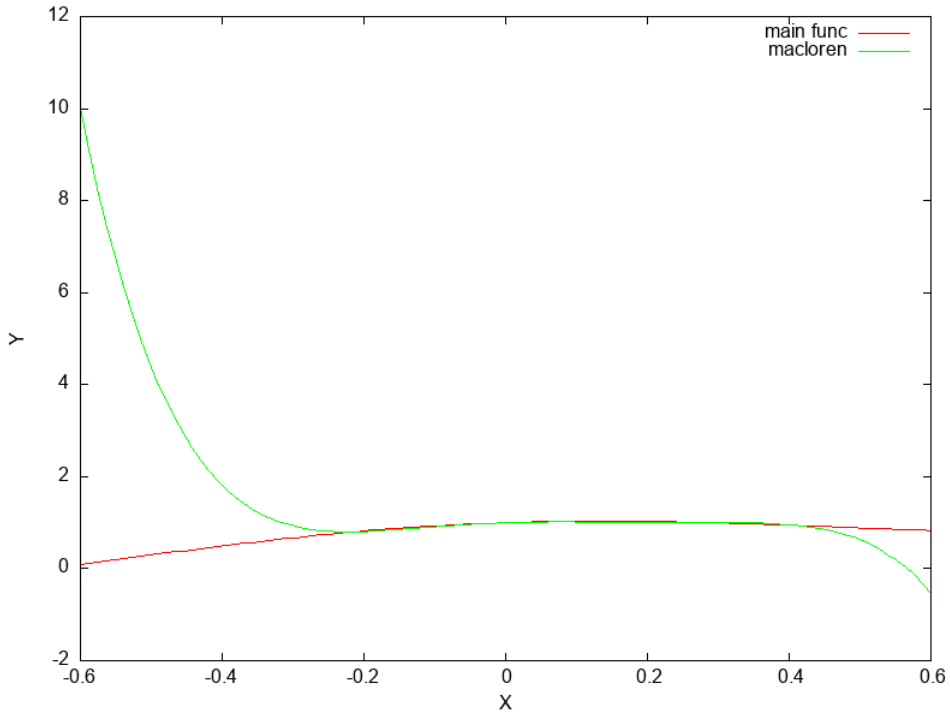
Macloren series graph:



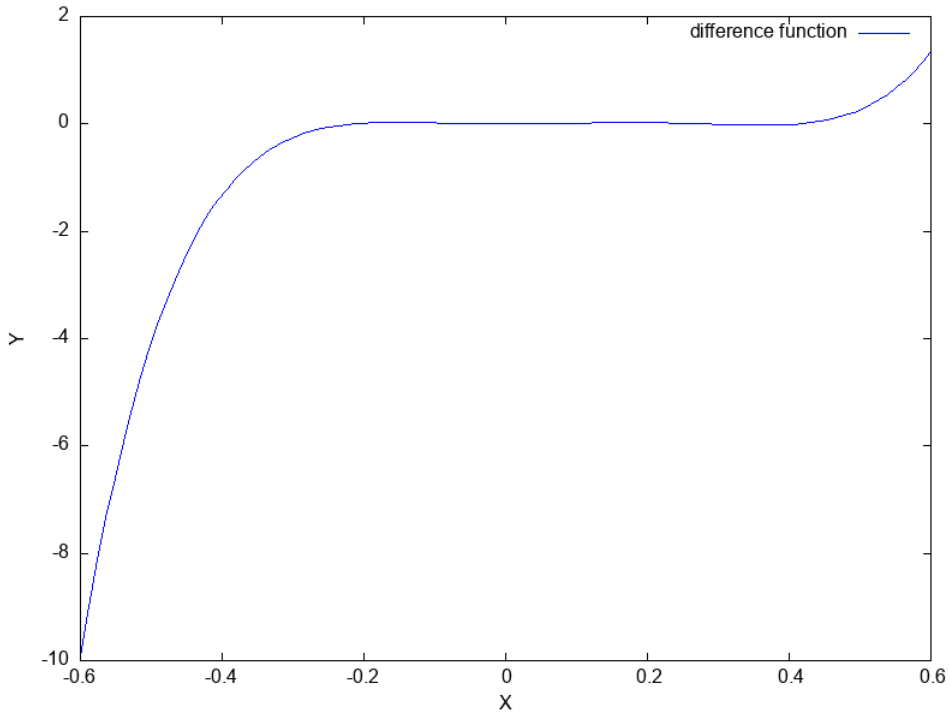
Main graph and tangent:



Comparing func graph and macloren's series graph:



Graph of the difference between main and macloren:


difference function
2
0
-2
-4
-6
-8
-10
Y
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
X