Expression exploration

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Introduction

Constants (3):

Worryingly, the importance of the derivative can be very interesting Our British scientists with Italian names living in America have spent about 17 YEARS, 14 MONTHS, and 47 DAYS studying the derivative problem and writing universal and unique differentiator. This article fully presents the results of their work!

With this article, I want to restore the former greatness of mathematics and help the humanity, and what's more, most importantly, first-year students of the Moscow Institute of Physics and Technology!!!

Some basic knowledge about researching problem...

Parameters and constants we use in this work (all data is qualified):

```
e = 2.718282
  pi = 3.141593
  AbObA = 1337.228690
Variables (3):
  kek = 13.000000
  a = 3.141500
  x = 1.000000
Parameters of exploration:
   Number of differentiates = 2
  Macloren's accuracy = 3
   Tanget point = 0.000000
  Delta coverage of tangent point = 0.500000
   Graph diapasone = [-2:2]
```

So let's calculate smth with a given function:

```
f(kek, a, x) = \cos kek \cdot a \cdot x^2 - \tan \frac{kek}{g}
```

Firstly, let's insert all constants:

```
f(\text{kek}, a, x) = \cos kek \cdot a \cdot x^2 - \tan \frac{kek}{2.71828}
```

3 Exploration of the expression as a function of multiple variables

- Calculation a value of function in the point

```
BRITISH SCIENTISTS WERE SHOCKED, WHEN THEY COUNT IT!!!
 In the point M_0(kek_0, a_0, x_0) = (13.000, 3.142, 1.000) expression's value = 17.10418
```

- Finding the first derivation of function

Personally, I've always thought about first derivation of something like that function... Haven't you? But now, by using informatics and math skills I feel that I'm prepared enough to calculate it!

1 step: Finding a derivation of 2.71828

```
While preparing for exams, I learned a lot of new things, for example:
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2 step: Finding a derivation of kek

Only after two cups of beer you might understand it:

(kek)' =

= 1

3 step: Finding a derivation of $\frac{kek}{2.71828}$

Never say it to girls:

 $(\frac{kek}{2.71828})' =$

 $= \frac{2.71828}{7.38906}$

4 step: Finding a derivation of $\tan \frac{kek}{2.71828}$

Only by using special skills we might know::

$$(\tan \frac{kek}{2.71828})' = \dots = [\text{top secret}] = \dots =$$

$$= 0.367879 \cdot \frac{1}{(\cos \frac{kek}{2.71828})^2}$$

5 step: Finding a derivation of x

What if:

(x)' =

= 1

6 step: Finding a derivation of x^2

Even my two-aged sister knows that:

 $(x^2)' =$ $= 2 \cdot x$

7 step: Finding a derivation of a

The first task in MIPT was to calculate:

(a)' =

= 1

8 step: Finding a derivation of kek

Never say it to girls:

```
(kek)' =
= 1
9 step: Finding a derivation of \cos kek
It's simple as fuck:
(\cos kek)' = \dots = [\text{top secret}] = \dots =
= (-1) \cdot \sin kek
10 step: Finding a derivation of \cos kek \cdot a
As we know:
(\cos kek \cdot a)' =
= (-1) \cdot \sin kek \cdot a + \cos kek
11 step: Finding a derivation of \cos kek \cdot a \cdot x^2
I was asked not to tell anyone that:
(\cos kek \cdot a \cdot x^2)' =
= ((-1) \cdot \sin kek \cdot a + \cos kek) \cdot x^2 + 2 \cdot x \cdot \cos kek \cdot a
12 step: Finding a derivation of \cos kek \cdot a \cdot x^2 - \tan \frac{kek}{2.71828}
Only after two cups of beer you might understand it:
(\cos kek \cdot a \cdot x^2 - \tan \frac{kek}{2.71828})' = \dots = [\text{top secret}] = \dots =
= (((-1) \cdot \sin kek \cdot a + \cos kek) \cdot x^2 + 2 \cdot x \cdot \cos kek \cdot a) - 0.367879 \cdot \frac{1}{(\cos \frac{kek}{2.71828})^2}
Congratulations! The first derivation of the expression is:
f'(\text{kek}, a, x) = (((-1) \cdot \sin kek \cdot a + \cos kek) \cdot x^2 + 2 \cdot x \cdot \cos kek \cdot a) - 0.367879 \cdot \frac{1}{(\cos \frac{kek}{2.71828})^2}
In the point M_0(kek_0, a_0, x_0) = (13.000, 3.142, 1.000) it's value = -69.81743
- Finding the 2 derivation
  1) Let's find the 1 derivation of the given function:
1 step: Finding a derivation of 2.71828
Even my two-aged sister knows that:
(2.71828)' =
= 0
2 step: Finding a derivation of kek
Even my two-aged sister knows that:
(kek)' =
= 1
3 step: Finding a derivation of \frac{kek}{2.71828}
When I was a child, my father always told me: "Remember, son:
(\tfrac{kek}{2.71828})' =
= \frac{2.71828}{7.38906}
4 step: Finding a derivation of \tan \frac{kek}{2.71828}
I have no words to describe this fact:
(\tan \frac{kek}{2.71828})' = \dots = [\text{top secret}] = \dots =
= 0.367879 \cdot \frac{1}{\left(\cos\frac{kek}{2.71828}\right)^2}
5 step: Finding a derivation of x
My roommate mumbled it in his sleep all night:
(x)' = \dots = [\text{top secret}] = \dots =
= 1
6 step: Finding a derivation of x^2
I have no words to describe this fact:
(x^2)' = \dots = [\text{top secret}] = \dots =
= 2 \cdot x
7 step: Finding a derivation of a
While preparing for exams, I learned a lot of new things, for example:
(a)' =
= 1
8 step: Finding a derivation of kek
It's really easy to find:
(kek)' =
9 step: Finding a derivation of \cos kek
What if:
(\cos kek)' = \dots = [\text{top secret}] = \dots =
= (-1) \cdot \sin kek
```

10 step: Finding a derivation of $\cos kek \cdot a$ You should be aware of the fact that: $(\cos kek \cdot a)' =$ $= (-1) \cdot \sin kek \cdot a + \cos kek$ 11 step: Finding a derivation of $\cos kek \cdot a \cdot x^2$ A true prince must know that: $(\cos kek \cdot a \cdot x^2)' =$ $= ((-1) \cdot \sin kek \cdot a + \cos kek) \cdot x^2 + 2 \cdot x \cdot \cos kek \cdot a$ 12 step: Finding a derivation of $\cos kek \cdot a \cdot x^2 - \tan \frac{kek}{2.71828}$ For centuries, people have hunted for the secret knowledge that: $(\cos kek \cdot a \cdot x^2 - \tan \frac{kek}{2.71828})' =$ $= (((-1) \cdot \sin kek \cdot a + \cos kek) \cdot x^2 + 2 \cdot x \cdot \cos kek \cdot a) - 0.367879 \cdot \frac{1}{(\cos \frac{kek}{2.71828})^2}$ So the 1 derivation of the function is: $(((-1)\cdot\sin kek\cdot a + \cos kek)\cdot x^2 + 2\cdot x\cdot\cos kek\cdot a) - 0.367879\cdot\frac{1}{(\cos\frac{kek}{2.71828})^2}$ 2) Let's find the 2 derivation of the given function: 1 step: Finding a derivation of 2.71828 I spend the hole of my life to find the answer and finally it's: $(2.71828)' = \dots = [top secret] = \dots =$ = 02 step: Finding a derivation of kek Never say it to girls: (kek)' == 13 step: Finding a derivation of $\frac{kek}{2.71828}$ It's really easy to find: $(\frac{kek}{2.71828})' =$ 4 step: Finding a derivation of $\cos \frac{kek}{2.71828}$ Sometimes I hear the same voice in my head, it always says: $(\cos\frac{kek}{2.71828})' = \dots = [\text{top secret}] = \dots =$ $= 0.367879 \cdot (-1) \cdot \sin \frac{kek}{2.71828}$ 5 step: Finding a derivation of $\left(\cos \frac{kek}{2.71828}\right)^2$ Even my two-aged sister knows that: $((\cos\frac{kek}{2.71828})^2)' =$ $= 2 \cdot \cos \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin \frac{kek}{2.71828}$ 6 step: Finding a derivation of 1 Only by using special skills we might know:: (1)' ==07 step: Finding a derivation of $\frac{1}{\left(\cos\frac{kek}{2.71828}\right)^2}$ My friends always beat me, because I didn't know that: $\left(\frac{1}{\left(\cos\frac{kek}{2.711828}\right)^2}\right)' = \dots = [\text{top secret}] = \dots =$ $= \frac{(-1)\cdot 2\cdot \cos\frac{kek}{2.71828}\cdot 0.367879\cdot (-1)\cdot \sin\frac{kek}{2.71828}}{\left(\left(\cos\frac{kek}{2.71828}\right)^2\right)^2}$ 8 step: Finding a derivation of 0.367879 A true prince must know that: $(0.367879)' = \dots = [top secret] = \dots =$ = 09 step: Finding a derivation of $0.367879 \cdot \frac{1}{\left(\cos\frac{kek}{2.71828}\right)^2}$ Sometimes I hear the same voice in my head, it always says: $(0.367879 \cdot \frac{1}{(\cos\frac{kek}{2.71828})^2})' =$ $= 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos\frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin\frac{kek}{2.71828}}{((\cos\frac{kek}{2.71828})^2)^2}$ 10 step: Finding a derivation of a Only by using special skills we might know:: $(a)' = \dots = [\mathbf{top} \ \mathbf{secret}] = \dots =$ 11 step: Finding a derivation of kek While preparing for exams, I learned a lot of new things, for example: (kek)' =

= 1

She: please, never speak with my dad about math... Me: ok) Also me after homework of matan: $(\cos kek)' = \dots = [\text{top secret}] = \dots =$ $= (-1) \cdot \sin kek$ 13 step: Finding a derivation of $\cos kek \cdot a$ My roommate mumbled it in his sleep all night: $(\cos kek \cdot a)' = \dots = [\text{top secret}] = \dots =$ $= (-1) \cdot \sin kek \cdot a + \cos kek$ 14 step: Finding a derivation of xA true prince must know that: $(x)' = \dots = [\text{top secret}] = \dots =$ = 115 step: Finding a derivation of 2 A true prince must know that: (2)' == 016 step: Finding a derivation of $2 \cdot x$ If someone asked me that in the middle of the night, I wouldn't hesitate to say: $(2 \cdot x)' =$ =217 step: Finding a derivation of $2 \cdot x \cdot \cos kek \cdot a$ When I was a child, my father always told me: "Remember, son: $(2 \cdot x \cdot \cos kek \cdot a)' = \dots = [\text{top secret}] = \dots =$ $= 2 \cdot \cos kek \cdot a + ((-1) \cdot \sin kek \cdot a + \cos kek) \cdot 2 \cdot x$ 18 step: Finding a derivation of x thanks to the results of my colleagues' scientific work, I know that: (x)' == 119 step: Finding a derivation of x^2 For centuries, people have hunted for the secret knowledge that: $(x^2)' = \dots = [\text{top secret}] = \dots =$ $= 2 \cdot x$ 20 step: Finding a derivation of kekIf someone asked me that in the middle of the night, I wouldn't hesitate to say: (kek)' == 121 step: Finding a derivation of $\cos kek$ A true prince must know that: $(\cos kek)' =$ $= (-1) \cdot \sin kek$ 22 step: Finding a derivation of a My roommate mumbled it in his sleep all night: $(a)' = \dots = [\text{top secret}] = \dots =$ 23 step: Finding a derivation of kek Sometimes I hear the same voice in my head, it always says: $(kek)' = \dots = [\mathbf{top} \ \mathbf{secret}] = \dots =$ 24 step: Finding a derivation of sin kek It was a tragic moment when I learned it on matan exam: $(\sin kek)' =$ $=\cos kek$ 25 step: Finding a derivation of -1Only by using special skills we might know:: $(-1)' = \dots = [\text{top secret}] = \dots =$ = 026 step: Finding a derivation of $(-1) \cdot \sin kek$ She: please, never speak with my dad about math... Me: ok) Also me after homework of matan:

12 step: Finding a derivation of $\cos kek$

```
((-1)\cdot\sin kek)' =
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 $= (-1) \cdot \cos kek$

27 step: Finding a derivation of $(-1) \cdot \sin kek \cdot a$

My friends always beat me, because I didn't know that:

 $((-1) \cdot \sin kek \cdot a)' =$

 $= (-1) \cdot \cos kek \cdot a + (-1) \cdot \sin kek$

28 step: Finding a derivation of $(-1) \cdot \sin kek \cdot a + \cos kek$

A true prince must know that:

 $((-1) \cdot \sin kek \cdot a + \cos kek)' =$

 $= (-1) \cdot \cos kek \cdot a + (-1) \cdot \sin kek + (-1) \cdot \sin kek$

29 step: Finding a derivation of $((-1) \cdot \sin kek \cdot a + \cos kek) \cdot x^2$

Lol, i remember that:

 $(((-1)\cdot\sin kek\cdot a + \cos kek)\cdot x^2)' = \dots = [\mathbf{top\ secret}] = \dots =$

 $= ((-1) \cdot \cos kek \cdot a + (-1) \cdot \sin kek + (-1) \cdot \sin kek) \cdot x^2 + 2 \cdot x \cdot ((-1) \cdot \sin kek \cdot a + \cos kek)$

30 step: Finding a derivation of $((-1) \cdot \sin kek \cdot a + \cos kek) \cdot x^2 + 2 \cdot x \cdot \cos kek \cdot a$

Lol, i remember that:

 $(((-1)\cdot\sin kek\cdot a + \cos kek)\cdot x^2 + 2\cdot x\cdot\cos kek\cdot a)' =$

 $= ((-1) \cdot \cos kek \cdot a + (-1) \cdot \sin kek + (-1) \cdot \sin kek) \cdot x^2 + 2 \cdot x \cdot ((-1) \cdot \sin kek \cdot a + \cos kek) + 2 \cdot \cos kek \cdot a + ((-1) \cdot \sin kek \cdot a + \cos kek) \cdot 2 \cdot x + ((-1) \cdot \sin kek \cdot a + ((-1) \cdot \sin kek \cdot$

31 step: Finding a derivation of $(((-1)\cdot\sin kek\cdot a + \cos kek)\cdot x^2 + 2\cdot x\cdot\cos kek\cdot a) - 0.367879\cdot\frac{1}{(\cos\frac{kek}{2.71828})^2}$

Only after two cups of beer you might understand it:

 $((((-1)\cdot\sin kek\cdot a + \cos kek)\cdot x^2 + 2\cdot x\cdot\cos kek\cdot a) - 0.367879\cdot\frac{1}{(\cos\frac{kek}{2.71828})^2})' = \dots = [\text{top secret}] = \dots = (((-1)\cdot\sin kek\cdot a + \cos kek)\cdot x^2 + 2\cdot x\cdot\cos kek\cdot a) - 0.367879\cdot\frac{1}{(\cos\frac{kek}{2.71828})^2})' = \dots = (-1)\cdot\cos(kek)\cdot x^2 + 2\cdot x\cdot\cos kek\cdot a) - 0.367879\cdot\frac{1}{(\cos\frac{kek}{2.71828})^2})' = \dots = (-1)\cdot\cos(kek)\cdot x^2 + 2\cdot x\cdot\cos kek\cdot a) - 0.367879\cdot\frac{1}{(\cos\frac{kek}{2.71828})^2})' = \dots = (-1)\cdot\cos(kek)\cdot x^2 + 2\cdot x\cdot\cos kek\cdot a) - 0.367879\cdot\frac{1}{(\cos\frac{kek}{2.71828})^2})' = \dots = (-1)\cdot\cos(kek)\cdot x^2 + 2\cdot x\cdot\cos kek\cdot a) - 0.367879\cdot\frac{1}{(\cos\frac{kek}{2.71828})^2})' = \dots = (-1)\cdot\cos(kek)\cdot x^2 + 2\cdot x\cdot\cos kek\cdot a) - 0.367879\cdot\frac{1}{(\cos\frac{kek}{2.71828})^2})' = \dots = (-1)\cdot\cos(kek)\cdot x^2 + 2\cdot x\cdot\cos kek\cdot a) - 0.367879\cdot\frac{1}{(\cos\frac{kek}{2.71828})^2})' = \dots = (-1)\cdot\cos(kek)\cdot x^2 + 2\cdot x\cdot\cos kek\cdot a) - 0.367879\cdot\frac{1}{(\cos\frac{kek}{2.71828})^2})' = \dots = (-1)\cdot\cos(kek)\cdot x^2 + 2\cdot x\cdot\cos kek\cdot a) - 0.367879\cdot\frac{1}{(\cos\frac{kek}{2.71828})^2})' = \dots = (-1)\cdot\cos(kek)\cdot x^2 + 2\cdot x\cdot\cos kek\cdot a) - 0.367879\cdot\frac{1}{(\cos\frac{kek}{2.71828})^2})' = \dots = (-1)\cdot\cos(kek)\cdot x^2 + 2\cdot x\cdot\cos(kek)\cdot a) - 0.367879\cdot\frac{1}{(\cos\frac{kek}{2.71828})^2})' = \dots = (-1)\cdot\cos(kek)\cdot x^2 + 2\cdot x\cdot\cos(kek)\cdot a) - 0.367879\cdot\frac{1}{(\cos\frac{kek}{2.71828})^2}$

 $= \left(\left((-1) \cdot \cos kek \cdot a + (-1) \cdot \sin kek + (-1) \cdot \sin kek \right) \cdot x^2 + 2 \cdot x \cdot \left((-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) \cdot 2 \cdot x \right) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin \frac{kek}{2.71828} \cdot 0.36789 \cdot (-1) \cdot \sin \frac{kek}{2.71828} \cdot (-1)$

So the 2 derivation of the function is:

 $\left(\left((-1) \cdot \cos kek \cdot a + (-1) \cdot \sin kek + (-1) \cdot \sin kek \right) \cdot x^2 + 2 \cdot x \cdot \left((-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) \cdot 2 \cdot x \right) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) \cdot 2 \cdot x \right) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) \cdot 2 \cdot x \right) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) \cdot 2 \cdot x \right) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) \cdot 2 \cdot x \right) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) \cdot 2 \cdot x \right) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \left((-1) \cdot \sin kek \cdot a + \cos kek \right) + 2 \cdot \cos kek \cdot a + \cos$

Finally... The 2 derivation of the expression:

 $f^{(2)}(\text{kek, a, x}) = (((-1) \cdot \cos kek \cdot a + (-1) \cdot \sin kek + (-1) \cdot \sin kek) \cdot x^2 + 2 \cdot x \cdot ((-1) \cdot \sin kek \cdot a + \cos kek) + 2 \cdot \cos kek \cdot a + ((-1) \cdot \sin kek \cdot a + \cos kek) \cdot 2 \cdot x) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin \frac{kek}{2.71828} \cdot ((-1) \cdot \sin kek \cdot a + \cos kek) + 2 \cdot \cos kek \cdot a + ((-1) \cdot \sin kek \cdot a + \cos kek) \cdot 2 \cdot x) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin \frac{kek}{2.71828} \cdot ((-1) \cdot \sin kek \cdot a + \cos kek) + 2 \cdot \cos kek \cdot a + ((-1) \cdot \sin kek \cdot a + \cos kek) \cdot 2 \cdot x) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin \frac{kek}{2.71828} \cdot ((-1) \cdot \sin kek \cdot a + \cos kek) + 2 \cdot \cos kek \cdot a + ((-1) \cdot \sin kek \cdot a + \cos kek) \cdot 2 \cdot x) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin \frac{kek}{2.71828} \cdot ((-1) \cdot \sin kek \cdot a + \cos kek) + 2 \cdot \cos kek \cdot a + ((-1) \cdot \sin kek \cdot a + \cos kek) \cdot 2 \cdot x) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin \frac{kek}{2.71828} \cdot ((-1) \cdot \sin kek \cdot a + \cos kek) + 2 \cdot \cos kek \cdot a + ((-1) \cdot \sin kek \cdot a + \cos kek) \cdot 2 \cdot x) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin kek}{((-1) \cdot \cos kek \cdot a + \cos kek) \cdot 2 \cdot \cos kek \cdot a + ((-1) \cdot \sin kek \cdot a + \cos kek) \cdot 2 \cdot x) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot 0.367879 \cdot (-1) \cdot \sin kek}{((-1) \cdot \cos \frac{kek}{2.71828} \cdot a + \cos kek) \cdot 2 \cdot x) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot a + \cos kek}{((-1) \cdot \cos \frac{kek}{2.71828} \cdot a + \cos kek) \cdot 2 \cdot x) - 0.367879 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot a + \cos kek}{((-1) \cdot \cos \frac{kek}{2.71828} \cdot a + \cos kek) \cdot 2 \cdot x) - 0.36789 \cdot \frac{(-1) \cdot 2 \cdot \cos \frac{kek}{2.71828} \cdot a + \cos kek}{((-1) \cdot \cos kek \cdot a + \cos kek) \cdot 2 \cdot x) - 0.36789 \cdot \frac{(-1) \cdot 2 \cdot \cos kek}{((-1) \cdot \cos kek \cdot a + \cos kek) \cdot 2 \cdot x) - 0.36789 \cdot \frac{(-1) \cdot 2 \cdot \cos kek}{((-1) \cdot \cos kek \cdot a + \cos kek) \cdot 2 \cdot x) - 0.36789 \cdot \frac{(-1) \cdot 2 \cdot \cos kek}{((-1) \cdot \cos kek \cdot a + \cos kek) \cdot 2 \cdot x) - 0.36789 \cdot \frac{(-1) \cdot 2 \cdot \cos kek}{((-1) \cdot \cos kek \cdot a + \cos kek) \cdot 2 \cdot x) - 0.36789 \cdot \frac{(-1) \cdot 2 \cdot \cos kek}{((-1) \cdot \cos kek \cdot a + \cos kek) \cdot 2 \cdot x) - 0.36789 \cdot \frac{(-1) \cdot 2 \cdot \cos kek}{((-1) \cdot \cos kek \cdot a + \cos kek) \cdot 2 \cdot x) - 0.36789 \cdot \frac{(-1) \cdot 2 \cdot \cos kek}{((-1) \cdot \cos kek \cdot a + \cos kek) \cdot 2 \cdot x)$

BRITISH SCIENTISTS WERE SHOCKED AGAIN, BECAUSE THEY COUNT THE 2 DERIVATION OF THIS FUNCTION!!!

In the point $M_0(kek_0, a_0, x_0) = (13.000, 3.142, 1.000)$ it's value = 788.00817

- Finding partical derivations

Partical derivation of the expression on the variable **kek**:

$$\frac{\partial f}{\partial kek} = 3.1415 \cdot (-1) \cdot \sin kek - 0.367879 \cdot \frac{1}{(\cos \frac{kek}{2.71828})^2}$$

In the point $M_0(kek_0, a_0, x_0) = (13.000, 3.142, 1.000)$ it's value = -76.42637 !!!

Partical derivation of the expression on the variable ${\bf a}$:

 $\frac{\partial f}{\partial a} = 0.907447$

In the point $M_0(kek_0, a_0, x_0) = (13.000, 3.142, 1.000)$ it's value = **0.90745**!!!

Partical derivation of the expression on the variable \mathbf{x} :

 $\frac{\partial f}{\partial x} = 2.85074 \cdot 2 \cdot x$

In the point $M_0(kek_0, a_0, x_0) = (13.000, 3.142, 1.000)$ it's value = 5.70149 !!!

- Finding full derivation

Full derivation:

$$\sqrt{\left(3.1415\cdot(-1)\cdot\sin kek - 0.367879\cdot\frac{1}{\left(\cos\frac{kek}{2.71828}\right)^2}\right)^2 + 0.82346 + \left(2.85074\cdot2\cdot x\right)^2}$$

In the point $M_0(kek_0,\,a_0,\,x_0) = (13.000,\,3.142,\,1.000)$ it's value = **76.64411** !!!

4 Exploration of the expression as a function of the first variable

In this part of the article let's consider the expression as a function of the first variable kek:

 $f(kek) = 3.1415 \cdot \cos kek - \tan \frac{kek}{2.71828}$

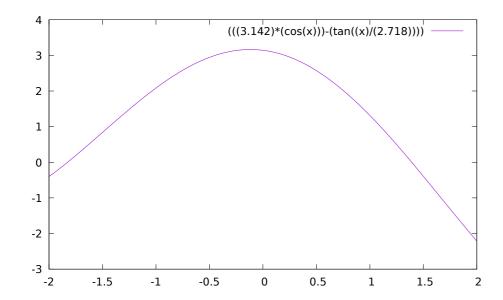
- Decomposing on Macloren's formula

First 3 members of Maklorens decomposition for $kek \rightarrow kek_0 = 13.000$:

 $f(kek) = 17.1042 + \left(-76.4264\right) \cdot \left(kek - 13\right) + 392.399 \cdot \left(kek - 13\right)^2 + \left(-2068.2\right) \cdot \left(kek - 13\right)^3 + o\left(\left(kek - 13\right)^3\right) + o$

- Graphics

Graph of f(kek) = $3.1415 \cdot \cos kek - \tan \frac{kek}{2.71828}$ on the diapasone $kek \in [-2:2]$:

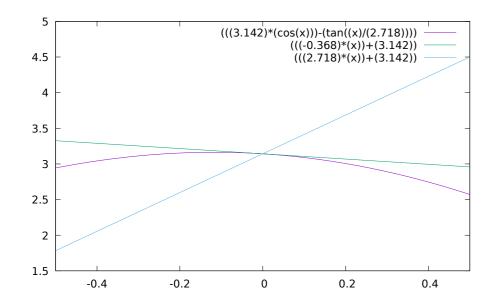


- Equations in the point

Tangent equation in $kek_0 = 0.000$: $f(kek) = (-0.367879) \cdot kek + 3.1415$

Normal equation in $kek_0 = 0.00000$: $f(kek) = 2.71828 \cdot kek + 3.1415$

Their graphs in $\delta = 0.500$ coverage of the point $kek_0 = 0.000$:



Conclusion

Thanks Ded for this amazing code experience and a lot of useful advice and care! Happy New Year!!! (Programming language is coming soon...)

Repository of the author Follow for more! Or watch us on YouTube!