CrIn GeCrIn GeProduction. Supercringe introduction here:

Let's calculate smth with expression given: f(x, y) = $x \cdot y^{2.000}$ Firstly, let's insert all constants and simplify it: BRITISH SCIENTISTS WERE SHOCKED, WHEN THEY COUNT IT!!! in the point (x = 3.000, y = 2.000)it's value = 12.000 1 step: finding a derivation of function: yhere it is: 1.000 2 step: finding a derivation of function: $y^{2.000}$ here it is: $2.000 \cdot y$ 3 step: finding a derivation of function: \boldsymbol{x} here it is: 1.0004 step: finding a derivation of function: $x \cdot y^{2.000}$ here it is: $y^{2.000} + 2.000 \cdot y \cdot x$ Congratulations! The first derivation of the expression is: $y^{2.000} + 2.000 \cdot y \cdot x$ in the point (x = 3.000, y = 2.000) it's value = 16.000 Let's calculate the 3 derivation of the expression: Calculating the 1 derivation of the expression: 1 step: finding a derivation of function: yhere it is: 1.0002 step: finding a derivation of function: $y^{2.000}$ here it is: $2.000 \cdot y$ 3 step: finding a derivation of function: \boldsymbol{x} here it is: 1.0004 step: finding a derivation of function: $x \cdot y^{2.000}$ here it is: $y^{2.000} + 2.000 \cdot y \cdot x$ Calculating the 2 derivation of the expression: 1 step: finding a derivation of function: \boldsymbol{x} here it is: 1.000 2 step: finding a derivation of function: yhere it is: 1.000 3 step: finding a derivation of function: 2.000here it is: 0.0004 step: finding a derivation of function: $2.000 \cdot y$ here it is: 2.0005 step: finding a derivation of function: $2.000 \cdot y \cdot x$ here it is: $2.000 \cdot x + 2.000 \cdot y$ 6 step: finding a derivation of function: y

here it is:

1.000

 $y^{2.000}$ here it is: $2.000 \cdot y$ 8 step: finding a derivation of function: $y^{2.000} + 2.000\cdot y\cdot x$ here it is: $2.000 \cdot y + 2.000 \cdot x + 2.000 \cdot y$ Calculating the 3 derivation of the expression: 1 step: finding a derivation of function: yhere it is: 1.000 2 step: finding a derivation of function: 2.000here it is: 0.0003 step: finding a derivation of function: $2.000 \cdot y$ here it is: 2.0004 step: finding a derivation of function: here it is: 1.000 5 step: finding a derivation of function: 2.000here it is: 0.0006 step: finding a derivation of function: $2.000 \cdot x$ here it is: 2.0007 step: finding a derivation of function: $2.000 \cdot x + 2.000 \cdot y$ here it is: 4.0008 step: finding a derivation of function: yhere it is: 1.000 9 step: finding a derivation of function: 2.000here it is: 0.00010 step: finding a derivation of function: $2.000 \cdot y$ here it is: 2.00011 step: finding a derivation of function: $2.000 \cdot y + 2.000 \cdot x + 2.000 \cdot y$ here it is: 6.000Finally... The 3 derivation of the expression: 6.000BRITISH SCIENTISTS WERE SHOCKED AGAIN, WHEN THEY COUNT THE 3 DERIVATION OF THIS EXPRESSION!!! in the point (x = 3.000, y = 2.000)it's value = 6.000 Partial derivation of the expression on the variable 'x': $\frac{\partial f}{\partial x}$ 4.000in the point (x = 3.000, y = 2.000) it's value = 4.000000!!! Partial derivation of the expression on the variable 'y': $\frac{\partial f}{\partial y}$ $3.000 \cdot 2.000 \cdot y$ in the point (x = 3.000, y = 2.000) it's value = 12.000000 !!! Full derivation: $\sqrt{16.000 + (3.000 \cdot 2.000 \cdot y)^{2.000}}$ in the point (x = 3.000, y = 2.000)it's value = 12.649!!! Let's consider the expression as a function of x variable: $f(x) = 4.000 \cdot x$ Maklorens formula for $x \to 3.000$: $f(x) = 12.000 + 4.000 \cdot (x - 3.000) + o((x - 3.000)^{4.000})$

7 step: finding a derivation of function:

Graph f(x):

Tangent equation in point -2.000: $f(\mathbf{x}) = 4.000 \cdot (x - (-2.000)) + (-8.000)$ Normal equation in point -2.000: $f(\mathbf{x}) = (-0.250) \cdot (x - (-2.000)) + (-8.000)$