CrIn Ge CrIn Ge Production. 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:

 $x \cdot y^{2.000}$

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:

y

here 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:

x

here it is:

1.000

4 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:

y

here it is:

1.000

 $2\ \mathrm{step} \colon$ finding a derivation of function:

 $y^{2.000}$

here it is:

 $2.000 \cdot y$

 $3~\mathrm{step:}$ finding a derivation of function:

x

here it is:

1.000

4 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:

 $1\ \mathrm{step}\colon$ finding a derivation of function:

x

here it is:

1.000

 $2\ \mathrm{step}\colon$ finding a derivation of function:

y

here it is:

1.000

 $3\ \mathrm{step}\colon$ finding a derivation of function:

2.000

here it is:

0.000

4 step: finding a derivation of function:

 $2.000 \cdot y$

here it is:

2.000

5 step: finding a derivation of function:

 $2.000 \cdot y \cdot x$

here it is:

 $2.000 \cdot x + 2.000 \cdot y$

 $6~\mathrm{step}\colon$ 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: 2.000 here 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: 1.0005 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: 2.000 11 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, 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': 4.000IN THE POINT (x = 3.000, y = 2.000) IT'S VALUE = 4.000000!!! Partial derivation of the expression on the variable '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 near to 3.000000: $12.000 + 4.000 \cdot (x - 3.000) + o((x - 3.000)^{4.000})$ Graph f(x): Tangent equation in point -2.000:

7 step: finding a derivation of function:

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