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:

 $x \cdot y^{2.000}$

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

 $2~\mathrm{step:}$ 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:

 $y^{2.000} + 2.000 \cdot y \cdot x$

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:

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 step: finding a derivation of function:

y

here it is:

1.000

7 step: finding a derivation of function:

 $y^{2.000}$

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:

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

y

here it is:

1.000

2 step: finding a derivation of function:

2.000

here it is:

0.000

3 step: finding a derivation of function:

 $2.000 \cdot y$

here it is:

2.000

4 step: finding a derivation of function:

~

here it is:

1.000

5 step: finding a derivation of function:

2.000

here it is:

0.000

6 step: finding a derivation of function:

 $2.000 \cdot x$

here it is:

2.000

7 step: finding a derivation of function:

 $2.000 \cdot x + 2.000 \cdot y$

here it is:

4.000

 $8\ \mathrm{step}\colon$ finding a derivation of function:

y

here it is:

1.000

 $9~\rm step:$ finding a derivation of function:

2.000

here it is:

0.000

 $10~\mathrm{step:}$ 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:

6.000

Finally... The 3 derivation of the expression:

6.000

BRITISH 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':

4.000

IN 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 -; 3.000000: 12.000 + 4.000 · (x - 3.000) + o((x - 3.000) $^{4.000}$)

Graph f(x):

Tangent equation in point -2.000:

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