CrIn GeCrIn GeProduction. Supercringe introduction here:

Let's calculate smth with expression given: f(x, y) =

 $x^{3.000} \cdot \ln(x+y)$

Firstly, let's insert all constants and simplify it:

 $x^{3.000} \cdot \ln\left(x+y\right)$

BRITISH SCIENTISTS WERE SHOCKED, WHEN THEY COUNT IT!!! IN THE POINT ($\mathbf{x}=3.000,\,\mathbf{y}=0.000$ 2.000)IT'S VALUE = 43.455!!!

y

1.000

1 step: finding a derivation of function:

2 step: finding a derivation of function:

 \boldsymbol{x}

here it is:

here it is:

1.000

3 step: finding a derivation of function:

(x+y)

here it is:

4 step: finding a derivation of function:

2.000

here it is:

 $\ln(x+y)$

5 step: finding a derivation of function:

 $2.000 \cdot \frac{1.000}{x+y}$

here it is:

 \boldsymbol{x}

6 step: finding a derivation of function:

here it is:

1.000 $x^{3.000}$

7 step: finding a derivation of function:

 $3.000\cdot x^{2.000}$ $x^{3.000} \cdot \ln\left(x+y\right)$

here it is:

 $3.000 \cdot x^{2.000} \cdot \ln(x+y) + 2.000 \cdot \frac{1.000}{x+y} \cdot x^{3.000}$

Congratulations! The first derivation of the expression is:

 $3.000 \cdot x^{2.000} \cdot \ln(x+y) + 2.000 \cdot \frac{1.000}{x+y} \cdot x^{3.000}$

IN THE POINT (x = 3.000, y = 2.000)IT'S VALUE = 54.255 !!!Let's calculate the 3 derivation of the expression:

Calculating the 1 derivation of the expression:

1 step: finding a derivation of function:

here it is:

3 step: finding a derivation of function:

5 step: finding a derivation of function:

6 step: finding a derivation of function:

y

1.000

2 step: finding a derivation of function:

 \boldsymbol{x}

here it is:

1.000

here it is:

(x+y)

4 step: finding a derivation of function:

 $\ln\left(x+y\right)$

here it is:

 $2.000 \cdot \frac{1.000}{x+y}$

here it is:

1.000

 $x^{3.000}$

here it is:

 $3.000\cdot x^{2.000}$

7 step: finding a derivation of function:

 $x^{3.000} \cdot \ln\left(x+y\right)$

here it is:

 $3.000 \cdot x^{2.000} \cdot \ln(x+y) + 2.000 \cdot \frac{1.000}{x+y} \cdot x^{3.000}$ Calculating the 2 derivation of the expression:

1 step: finding a derivation of function:

here it is:

1.000

 $x^{3.000}$

 \boldsymbol{x}

2 step: finding a derivation of function:

 $3.000\cdot x^{2.000}$

3 step: finding a derivation of function:

here it is:

here it is:

y

4 step: finding a derivation of function:

1.000 \boldsymbol{x}

here it is:

1.000

5 step: finding a derivation of function:

x + y

here it is:

2.000

6 step: finding a derivation of function: here it is:

1.0000.000

7 step: finding a derivation of function:

1.000

here it is:

x + y

 $\frac{(-1.000) \cdot 2.000}{\left(x+y\right)^{2.000}}$

8 step: finding a derivation of function:

2.000

here it is:

0.000

9 step: finding a derivation of function:

 $2.000 \cdot \frac{1.000}{x+y}$

here it is:

 $2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}}$

10 step: finding a derivation of function:

 $2.000 \cdot \frac{1.000}{x+y} \cdot x^{3.000}$

here it is:

$$2.000 \cdot \frac{\left(-2.000\right)}{\left(x+y\right)^{2.000}} \cdot x^{3.000} + 3.000 \cdot x^{2.000} \cdot 2.000 \cdot \frac{1.000}{x+y}$$

11 step: finding a derivation of function:

y

here it is:

1.000

12 step: finding a derivation of function:

 \boldsymbol{x}

here it is:

1.000

13 step: finding a derivation of function:

16 step: finding a derivation of function:

17 step: finding a derivation of function:

19 step: finding a derivation of function:

here it is:

(x+y)

2.000 14 step: finding a derivation of function:

 $\ln(x+y)$

here it is:

 $2.000 \cdot \frac{1.000}{x+y}$

15 step: finding a derivation of function:

here it is:

1.000

 \boldsymbol{x}

 $x^{2.000}$

here it is:

 $2.000 \cdot x$

3.000

here it is:

0.000

18 step: finding a derivation of function:

 $3.000 \cdot x^{2.000}$

here it is:

 $3.000 \cdot 2.000 \cdot x$

 $3.000 \cdot x^{2.000} \cdot \ln(x+y)$

here it is:

$$3.000 \cdot 2.000 \cdot x \cdot \ln{(x+y)} + 2.000 \cdot \frac{1.000}{x+y} \cdot 3.000 \cdot x^{2.000}$$

20 step: finding a derivation of function:
$$3.000 \cdot x^{2.000} \cdot \ln{(x+y)} + 2.000 \cdot \frac{1.000}{x+y} \cdot x^{3.000}$$

here it is:

$$3.000 \cdot 2.000 \cdot x \cdot \ln{(x+y)} + 2.000 \cdot \frac{1.000}{x+y} \cdot 3.000 \cdot x^{2.000} + 2.000 \cdot \frac{(-2.000)}{{(x+y)}^{2.000}} \cdot x^{3.000} + 3.000 \cdot x^{2.000} \cdot 2.000 \cdot \frac{1.000}{x+y}$$

1 step: finding a derivation of function:

2 step: finding a derivation of function:

6 step: finding a derivation of function:

8 step: finding a derivation of function:

9 step: finding a derivation of function:

here it is:

Calculating the 3 derivation of the expression:

1.000

y

 \boldsymbol{x}

here it is:

1.000

3 step: finding a derivation of function: here it is:

x + y2.000

4 step: finding a derivation of function:

1.000

0.000

5 step: finding a derivation of function:

here it is:

1.000 x + y

here it is:

 $\frac{(-1.000) \cdot 2.000}{(x+y)^{2.000}}$ 2.000

here it is:

0.000

7 step: finding a derivation of function:

 $2.000 \cdot \frac{1.000}{x+y}$ $2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}}$

here it is:

 \boldsymbol{x}

here it is:

1.000 $x^{2.000}$

here it is:

 $2.000 \cdot x$

10 step: finding a derivation of function:

3.000

0.000

11 step: finding a derivation of function:

here it is:

 $3.000\cdot x^{2.000}$

here it is:

 $3.000 \cdot 2.000 \cdot x$

 $3.000 \cdot x^{2.000} \cdot 2.000 \cdot \frac{1.000}{x+y}$

12 step: finding a derivation of function:

$$3.000 \cdot 2.000 \cdot x \cdot 2.000 \cdot \frac{1.000}{x+y} + 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot 3.000 \cdot x^{2.000}$$

here it is:

here it is:

16 step: finding a derivation of function:

13 step: finding a derivation of function:

14 step: finding a derivation of function:

 $x^{3.000}$

1.000

here it is:

 $3.000\cdot x^{2.000}$

15 step: finding a derivation of function:

y

here it is:

1.000

here it is:

1.000

 \boldsymbol{x}

2

 $2.000 \cdot \frac{(-1.000) \cdot (-2.000) \cdot 2.000 \cdot 2.000 \cdot (x+y)}{\left(((x+y)^{2.000}\right)^{2.000}} \cdot x^{3.000} + 3.000 \cdot x^{2.000} \cdot 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} + 3.000 \cdot 2.000 \cdot x \cdot 2.000 \cdot \frac{1}{x} \cdot \frac{$ 25 step: finding a derivation of function: \boldsymbol{x} here it is: 1.000 26 step: finding a derivation of function: $x^{2.000}$ here it is: $2.000 \cdot x$ 27 step: finding a derivation of function: 3.000 here it is: 0.00028 step: finding a derivation of function: $3.000 \cdot x^{2.000}$ here it is: $3.000 \cdot 2.000 \cdot x$ 29 step: finding a derivation of function: yhere it is: 1.000 30 step: finding a derivation of function: \boldsymbol{x} here it is: 1.000 31 step: finding a derivation of function: x + yhere it is: 2.00032 step: finding a derivation of function: 1.000 here it is: 0.00033 step: finding a derivation of function: 1.000 x + yhere it is: $\frac{(-1.000) \cdot 2.000}{\left(x+y\right)^{2.000}}$ 34 step: finding a derivation of function: 2.000here it is: 0.00035 step: finding a derivation of function: $2.000 \cdot \frac{1.000}{x+y}$ here it is: $2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}}$

 $2.000 \cdot \frac{1.000}{x+y} \cdot 3.000 \cdot x^{2.000}$

 $2.000 \cdot \frac{\left(-2.000\right)}{\left(x+y\right)^{2.000}} \cdot 3.000 \cdot x^{2.000} + 3.000 \cdot 2.000 \cdot x \cdot 2.000 \cdot \frac{1.000}{x+y}$

y

1.000

 \boldsymbol{x}

1.000

(x+y)

2.000

 $\ln\left(x+y\right)$

 $2.000 \cdot \frac{1.000}{x+y}$

 \boldsymbol{x}

1.000

2.000

3

17 step: finding a derivation of function:

18 step: finding a derivation of function:

19 step: finding a derivation of function:

20 step: finding a derivation of function:

21 step: finding a derivation of function:

22 step: finding a derivation of function:

23 step: finding a derivation of function:

24 step: finding a derivation of function:

36 step: finding a derivation of function:

37 step: finding a derivation of function:

38 step: finding a derivation of function:

39 step: finding a derivation of function:

40 step: finding a derivation of function:

41 step: finding a derivation of function:

42 step: finding a derivation of function:

here it is:

(x+y)

2.000

 $\left(x+y\right)^{2.000}$

 $2.000 \cdot 2.000 \cdot (x+y)$

(-2.000)

0.000

 $\frac{(-1.000) \cdot (-2.000) \cdot 2.000 \cdot 2.000 \cdot (x+y)}{((x+y)^{2.000})^{2.000}}$

2.000

0.000

 $2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}}$

 $2.000 \cdot \frac{(-1.000) \cdot (-2.000) \cdot 2.000 \cdot 2.000 \cdot (x+y)}{((x+y)^{2.000})^{2.000}}$

 $2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot x^{3.000}$

 $2.000 \cdot \frac{\left(-1.000\right) \cdot \left(-2.000\right) \cdot 2.000 \cdot 2.000 \cdot \left(x+y\right)}{\left(\left(x+y\right)^{2.000}\right)^{2.000}} \cdot x^{3.000} + 3.000 \cdot x^{2.000} \cdot 2.000 \cdot \frac{\left(-2.000\right)}{\left(x+y\right)^{2.000}}$

 $2.000 \cdot \frac{\left(-2.000\right)}{\left(x+y\right)^{2.000}} \cdot x^{3.000} + 3.000 \cdot x^{2.000} \cdot 2.000 \cdot \frac{1.000}{x+y}$

here it is:

0.000

43 step: finding a derivation of function:

 $2.000 \cdot x$

here it is:

2.000

44 step: finding a derivation of function:

3.000

 $3.000 \cdot 2.000 \cdot x$

here it is:

0.000

45 step: finding a derivation of function:

46 step: finding a derivation of function:

here it is:

6.000

$$3.000 \cdot 2.000 \cdot x \cdot \ln\left(x+y\right)$$

here it is:

$$6.000 \cdot \ln{(x+y)} + 2.000 \cdot \frac{1.000}{x+y} \cdot 3.000 \cdot 2.000 \cdot x$$
 47 step: finding a derivation of function:

$$3.000 \cdot 2.000 \cdot x \cdot \ln(x+y) + 2.000 \cdot \frac{1.000}{x+y} \cdot 3.000 \cdot x^{2.000}$$

here it is:

$$6.000 \cdot \ln{(x+y)} + 2.000 \cdot \frac{1.000}{x+y} \cdot 3.000 \cdot 2.000 \cdot x + 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot 3.000 \cdot x^{2.000} + 3.000 \cdot 2.000 \cdot x \cdot 2.000 \cdot \frac{1.000}{x+y}$$

48 step: finding a derivation of function:

$$3.000 \cdot 2.000 \cdot x \cdot \ln{(x+y)} + 2.000 \cdot \frac{1.000}{x+y} \cdot 3.000 \cdot x^{2.000} + 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot x^{3.000} + 3.000 \cdot x^{2.000} \cdot 2.000 \cdot \frac{1.000}{x+y}$$

here it is:

$$6.000 \cdot \ln{(x+y)} + 2.000 \cdot \frac{1.000}{x+y} \cdot 3.000 \cdot 2.000 \cdot x + 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot 3.000 \cdot x^{2.000} + 3.000 \cdot 2.000 \cdot x \cdot 2.000 \cdot \frac{1.000}{x+y} + 2.000 \cdot x \cdot 2.000 \cdot$$

Finally... The 3 derivation of the expression:

Finally... The 3 derivation of the expression.
$$6.000 \cdot \ln{(x+y)} + 2.000 \cdot \frac{1.000}{x+y} \cdot 3.000 \cdot 2.000 \cdot x + 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot 3.000 \cdot x^{2.000} + 3.000 \cdot 2.000 \cdot x \cdot 2.000 \cdot \frac{1.000}{x+y} + 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot 3.000 \cdot x^{2.000} + 3.000 \cdot 2.000 \cdot x \cdot 2.000 \cdot \frac{1.000}{x+y} + 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot 3.000 \cdot x^{2.000} + 3.000 \cdot 2.000 \cdot x \cdot 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot 3.000 \cdot x^{2.000} + 3.000 \cdot 2.000 \cdot x \cdot 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot 3.000 \cdot x^{2.000} + 3.000 \cdot 2.000 \cdot x \cdot 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot 3.000 \cdot x^{2.000} + 3.000 \cdot 2.000 \cdot x \cdot 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot 3.000 \cdot x^{2.000} + 3.000 \cdot 2.000 \cdot x \cdot 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot 3.000 \cdot x^{2.000} + 3.000 \cdot 2.000 \cdot x \cdot 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot \frac{(-2.000)}{(x+$$

BRITISH SCIENTISTS WERE SHOCKED, WHEN THEY COUNT THE 3 DERIVATION OF THIS EX-

PRESSION!!! IN THE POINT (x = 3.000, y = 2.000)IT'S VALUE = 21.753!!!

Partial derivation of the expression on the variable 'x':

$$3.000 \cdot x^{2.000} \cdot \ln(x + 2.000) + \frac{1.000}{x + 2.000} \cdot x^{3.000}$$

IN THE POINT (x = 3.000, y = 2.000) IT'S VALUE = 48.854824 !!! Partial derivation of the expression on the variable 'y':

$$27.000 \cdot \frac{1.000}{3.000 + y}$$

IN THE POINT (x = 3.000, y = 2.000) IT'S VALUE = 5.400000 !!! Full derivation:

$$\sqrt{\left(3.000 \cdot x^{2.000} \cdot \ln{(x + 2.000)} + \frac{1.000}{x + 2.000} \cdot x^{3.000}\right)^{2.000} + \left(27.000 \cdot \frac{1.000}{3.000 + y}\right)^{2.000}}$$
 IN THE POINT (x = 3.000, y = 2.000)
IT'S VALUE = 49.152 !!!

Let's consider the expression as a function of x variable: f(x) =

$$x^{3.000} \cdot \ln(x + 2.000)$$

Maklorens formula for x near to 3.000000:

$$43.455 + 48.855 \cdot (x - 3.000) + 19.345 \cdot (x - 3.000)^{2.000} + 2.941 \cdot (x - 3.000)^{3.000} + 0.081 \cdot (x - 3.000)^{4.000}$$

And remaining member is o maloe from:

$$(x - 3.000)^{4.000}$$

Graph f(x):

Tangent equation in point -2.000: f(x) =

$$(-inf) \cdot (x - (-2.000)) + inf$$

Normal equation in point -2.000: f(x) =

$$0.000 \cdot (x - (-2.000)) + inf$$