

CrInGeCrInGe Production. Super cringe introduction here:
Let's calculate snuth with expersion given: f(x, y) =

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

BRITISH SCIENTISTS WERE SHOCKED, WHEN THEY COUNT IT!!! IN THE POINT (x = 3.000, y = 1.000)IT'S VALUE = 37.430 !!!
1 step: finding a derivation of function:

here it is:

2 step: finding a derivation of function:

here it is:

3 step: finding a derivation of function:

here it is:

4 step: finding a derivation of function:

here it is:

5 step: finding a derivation of function:

here it is:

6 step: finding a derivation of function:

here it is:

7 step: finding a derivation of function:

here it is:

Congratulations! The first derivation of the expression is:

IN THE POINT (x = 3.000, y = 1.000)IT'S VALUE = 50.930 !!!
Let's calculate the 3 derivation of the expersion:
Calculating the 1 derivation of the expression:
1 step: finding a derivation of function:

here it is:

2 step: finding a derivation of function:

here it is:

3 step: finding a derivation of function:

here it is:

4 step: finding a derivation of function:

here it is:

5 step: finding a derivation of function:

here it is:

6 step: finding a derivation of function:

here it is:

7 step: finding a derivation of function:

here it is:

Calculating the 2 derivation of the expression:
1 step: finding a derivation of function:

here it is:

2 step: finding a derivation of function:

here it is:

3 step: finding a derivation of function:

here it is:

4 step: finding a derivation of function:

here it is:

5 step: finding a derivation of function:

here it is:

6 step: finding a derivation of function:

here it is:

7 step: finding a derivation of function:

here it is:

8 step: finding a derivation of function:

here it is:

9 step: finding a derivation of function:

here it is:

10 step: finding a derivation of function:

here it is:

11 step: finding a derivation of function:

here it is:

12 step: finding a derivation of function:

here it is:

13 step: finding a derivation of function:

here it is:

14 step: finding a derivation of function:

here it is:

15 step: finding a derivation of function:

here it is:

16 step: finding a derivation of function:

here it is:

17 step: finding a derivation of function:

here it is:

18 step: finding a derivation of function:

here it is:

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

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

$$y$$
$$1.000$$

$$x$$
$$1.000$$

$$(x + y)$$
$$2.000$$

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

$$x$$
$$1.000$$

$$x^{3.000}$$
$$3.000 \cdot x^{2.000}$$

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

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

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

$$y$$
$$1.000$$

$$x$$
$$1.000$$

$$(x + y)$$
$$2.000$$

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

$$x$$
$$1.000$$

$$x^{3.000}$$
$$3.000 \cdot x^{2.000}$$

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

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

$$x$$
$$1.000$$

$$x^{3.000}$$
$$3.000 \cdot x^{2.000}$$

$$y$$
$$1.000$$

$$x$$
$$1.000$$

$$x + y$$
$$2.000$$

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

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

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

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

$$y$$
$$1.000$$

$$x$$
$$1.000$$

$$(x + y)$$
$$2.000$$

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

$$x$$
$$1.000$$

$$x^{3.000}$$
$$2.000 \cdot x$$

$$3.000$$
$$0.000$$

$$3.000 \cdot x^{2.000}$$

$$3.000 \cdot 2.000 \cdot x$$

19 step: finding a derivation of function:

here it is:

20 step: finding a derivation of function:

here it is:

Calculating the 3 derivation of the expression:
1 step: finding a derivation of function:

here it is:

2 step: finding a derivation of function:

here it is:

3 step: finding a derivation of function:

here it is:

4 step: finding a derivation of function:

here it is:

5 step: finding a derivation of function:

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19 step: finding a derivation of function:

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27 step: finding a derivation of function:

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28 step: finding a derivation of function:

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29 step: finding a derivation of function:

here it is:

30 step: finding a derivation of function:

here it is:

31 step: finding a derivation of function:

here it is:

32 step: finding a derivation of function:

$$\begin{aligned} &3.000 \cdot x^{2.000} \cdot \ln(x+y) \\ &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} \\ &3.000 \cdot x^{2.000} \cdot \ln(x+y) + 2.000 \cdot \frac{1.000}{x+y} \cdot x^{2.000} \\ &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} \\ &y \\ &1.000 \\ &x \\ &1.000 \\ &x+y \\ &2.000 \\ &1.000 \\ &0.000 \\ &\frac{1.000}{x+y} \\ &\frac{(-1.000) \cdot 2.000}{(x+y)^{3.000}} \\ &2.000 \\ &0.000 \\ &2.000 \cdot \frac{1.000}{x+y} \\ &2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \\ &x \\ &1.000 \\ &x^{2.000} \\ &2.000 \cdot x \\ &3.000 \\ &0.000 \\ &3.000 \cdot x^{2.000} \\ &3.000 \cdot 2.000 \cdot x \\ &3.000 \cdot x^{2.000} \cdot 2.000 \cdot \frac{1.000}{x+y} \\ &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} \\ &x \\ &1.000 \\ &x^{3.000} \\ &3.000 \cdot x^{2.000} \\ &y \\ &1.000 \\ &x \\ &1.000 \\ &(x+y) \\ &2.000 \\ &(x+y)^{2.000} \\ &2.000 \cdot 2.000 \cdot (x+y) \\ &(-2.000) \\ &0.000 \\ &\frac{(-2.000)}{(x+y)^{2.000}} \\ &\frac{(-1.000) \cdot (-2.000) \cdot 2.000 \cdot 2.000 \cdot (x+y)}{(x+y)^{5.000} \cdot 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)^{5.000} \cdot 2.000} \\ &2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot x^{3.000} \\ &2.000 \cdot \frac{(-1.000) \cdot (-2.000) \cdot 2.000 \cdot 2.000 \cdot (x+y)}{[(x+y)^{3.000} \cdot 2.000]} \cdot x^{3.000} + 3.000 \cdot x^{2.000} \cdot 2.000 \cdot \frac{(-2.000)}{(x+y)^{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} \\ &2.000 \cdot \frac{(-1.000) \cdot (-2.000) \cdot 2.000 \cdot 2.000 \cdot (x+y)}{[(x+y)^{3.000} \cdot 3.000]} \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{1.000}{x+y} + 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot 3.000 \cdot x^{2.000} \\ &x \\ &1.000 \\ &x^{2.000} \\ &2.000 \cdot x \\ &3.000 \\ &0.000 \\ &3.000 \cdot x^{2.000} \\ &3.000 \cdot 2.000 \cdot x \\ &y \\ &1.000 \\ &x \\ &1.000 \\ &x+y \\ &2.000 \\ &1.000 \\ &2 \end{aligned}$$

here it is:

33 step: finding a derivation of function:

here it is:

34 step: finding a derivation of function:

here it is:

35 step: finding a derivation of function:

here it is:

36 step: finding a derivation of function:

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here it is:

48 step: finding a derivation of function:

here it is:

Finally... The 3 derivation of the expression:

BRITISH SCIENTISTS WERE SHOCKED, WHEN THEY COUNT THE 3 DERIVATION OF THIS EXPRESSION!!! IN THE POINT (x = 3.000, y = 1.000)IT'S VALUE = 21.818 !!!

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

IN THE POINT (x = 3.000, y = 1.000) IT'S VALUE = 44.179948 !!!

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

IN THE POINT (x = 3.000, y = 1.000) IT'S VALUE = 6.750000 !!!

Full derivation:

IN THE POINT (x = 3.000, y = 1.000)IT'S VALUE = 44.603 !!!

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

Maklorens formula for x near to 3.000000:

And remaining member is o maloe from:

Graph f(x);

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

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

$$\begin{aligned} &0.000 \\ &\frac{1.000}{x+y} \\ &\frac{(-1.000) \cdot 2.000}{(x+y)^{2.000}} \\ &2.000 \\ &0.000 \\ &2.000 \cdot \frac{1.000}{x+y} \\ &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{(-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} \\ &y \\ &1.000 \\ &x \\ &1.000 \\ &(x+y) \\ &2.000 \\ &\ln(x+y) \\ &2.000 \cdot \frac{1.000}{x+y} \\ &x \\ &1.000 \\ &2.000 \\ &0.000 \\ &2.000 \cdot x \\ &2.000 \\ &3.000 \\ &0.000 \\ &3.000 \cdot 2.000 \cdot x \\ &6.000 \\ &3.000 \cdot 2.000 \cdot x \cdot \ln(x+y) \\ &6.000 \cdot \ln(x+y) + 2.000 \cdot \frac{1.000}{x+y} \cdot 3.000 \cdot 2.000 \cdot x \\ &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} \\ &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} \\ &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} \\ &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{(-1.000) \cdot (-2.000) \cdot 2.000 \cdot 2.000 \cdot (x+y)}{((x+y)^{2.000} \cdot 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{1.000}{x+y} + 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot 3.000 \cdot x^{2.000} \\ &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{(-1.000) \cdot (-2.000) \cdot 2.000 \cdot 2.000 \cdot (x+y)}{((x+y)^{2.000} \cdot 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{1.000}{x+y} + 2.000 \cdot \frac{(-2.000)}{(x+y)^{2.000}} \cdot 3.000 \cdot x^{2.000} \\ &3.000 \cdot x^{2.000} \cdot \ln(x+1.000) + \frac{1.000}{x+1.000} \cdot x^{3.000} \\ &27.000 \cdot \frac{1.000}{3.000+y} \\ &\sqrt{3.000 \cdot x^{2.000} \cdot \ln(x+1.000) + \frac{1.000}{x+1.000} \cdot x^{3.000}}^{\frac{2.000}{2}} + (27.000 \cdot \frac{1.000}{3.000+y})^{\frac{2.000}{2}} \\ &x^{3.000} \cdot \ln(x+1.000) \\ &37.430 + 44.180 \cdot (x-3.000) + 18.383 \cdot (x-3.000)^{\frac{3.000}{2}} + 2.933 \cdot (x-3.000)^{\frac{3.000}{2}} + 0.083 \cdot (x-3.000)^{\frac{5.000}{2}} \\ &(x-3.000)^{4.000} \\ &\gamma(in f)? \cdot (x-(-2.000)) + \gamma(in f)? \\ &\gamma(in f)? \cdot (x-(-2.000)) + \gamma(in f)? \end{aligned}$$