CrInGeCrInGe Production. Super cringe introduction here:
Let's calculate smth with expression 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 = 2.000)IT'S VALUE = 43.455 !!!
1 step: finding a derivation of function:

here it is:

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

2 step: finding a derivation of function:

here it is:

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

3 step: finding a derivation of function:

here it is:

$$y$$

4 step: finding a derivation of function:

here it is:

$$1.000$$

5 step: finding a derivation of function:

here it is:

$$x$$

6 step: finding a derivation of function:

here it is:

$$1.000$$

7 step: finding a derivation of function:

here it is:

$$(x+y)$$

Congratulations! The first derivation of the expression is:

$$2.000$$

$$\ln(x+y)$$

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

$$x$$

$$1.000$$

$$x^{3.000}$$

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

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

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

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

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:

$$y$$

2 step: finding a derivation of function:

here it is:

$$1.000$$

3 step: finding a derivation of function:

here it is:

$$x$$

4 step: finding a derivation of function:

here it is:

$$1.000$$

5 step: finding a derivation of function:

here it is:

$$(x+y)$$

6 step: finding a derivation of function:

here it is:

$$2.000$$

7 step: finding a derivation of function:

here it is:

$$\ln(x+y)$$

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

$$x$$

$$1.000$$

$$x^{3.000}$$

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

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

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

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

here it is:

$$x$$

2 step: finding a derivation of function:

here it is:

$$1.000$$

3 step: finding a derivation of function:

here it is:

$$x^{3.000}$$

4 step: finding a derivation of function:

here it is:

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

5 step: finding a derivation of function:

here it is:

$$y$$

6 step: finding a derivation of function:

here it is:

$$1.000$$

7 step: finding a derivation of function:

here it is:

$$x$$

8 step: finding a derivation of function:

here it is:

$$1.000$$

9 step: finding a derivation of function:

here it is:

$$x+y$$

10 step: finding a derivation of function:

here it is:

$$2.000$$

11 step: finding a derivation of function:

here it is:

$$1.000$$

12 step: finding a derivation of function:

here it is:

$$0.000$$

13 step: finding a derivation of function:

here it is:

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

14 step: finding a derivation of function:

here it is:

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

15 step: finding a derivation of function:

here it is:

$$2.000$$

16 step: finding a derivation of function:

here it is:

$$0.000$$

17 step: finding a derivation of function:

here it is:

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

18 step: finding a derivation of function:

here it is:

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

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

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

$$y$$

$$1.000$$

$$x$$

$$1.000$$

$$(x+y)$$

$$2.000$$

$$\ln(x+y)$$

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

$$x$$

$$1.000$$

$$x^{2.000}$$

$$2.000 \cdot x$$

$$3.000$$

$$0.000$$

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

$$3.000 \cdot 2.000 \cdot x$$

$$1$$

19 step: finding a derivation of function:

here it is:

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

20 step: finding a derivation of function:

here it is:

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

Calculating the 3 derivation of the expression:

1 step: finding a derivation of function:

here it is:

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

2 step: finding a derivation of function:

here it is:

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

3 step: finding a derivation of function:

here it is:

$$y$$

4 step: finding a derivation of function:

here it is:

$$1.000$$

5 step: finding a derivation of function:

here it is:

$$x$$

6 step: finding a derivation of function:

here it is:

$$1.000$$

7 step: finding a derivation of function:

here it is:

$$x+y$$

8 step: finding a derivation of function:

here it is:

$$2.000$$

9 step: finding a derivation of function:

here it is:

$$1.000$$

10 step: finding a derivation of function:

here it is:

$$0.000$$

11 step: finding a derivation of function:

here it is:

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

12 step: finding a derivation of function:

here it is:

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

13 step: finding a derivation of function:

here it is:

$$2.000$$

14 step: finding a derivation of function:

here it is:

$$0.000$$

15 step: finding a derivation of function:

here it is:

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

16 step: finding a derivation of function:

here it is:

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

17 step: finding a derivation of function:

here it is:

$$x$$

18 step: finding a derivation of function:

here it is:

$$1.000$$

19 step: finding a derivation of function:

here it is:

$$x^{2.000}$$

20 step: finding a derivation of function:

here it is:

$$2.000 \cdot x$$

21 step: finding a derivation of function:

here it is:

$$3.000$$

22 step: finding a derivation of function:

here it is:

$$0.000$$

23 step: finding a derivation of function:

here it is:

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

24 step: finding a derivation of function:

here it is:

$$3.000 \cdot 2.000 \cdot x$$

25 step: finding a derivation of function:

here it is:

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

26 step: finding a derivation of function:

here it is:

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

27 step: finding a derivation of function:

here it is:

$$x$$

28 step: finding a derivation of function:

here it is:

$$1.000$$

29 step: finding a derivation of function:

here it is:

$$x^{3.000}$$

30 step: finding a derivation of function:

here it is:

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

31 step: finding a derivation of function:

here it is:

$$y$$

32 step: finding a derivation of function:

here it is:

$$1.000$$

33 step: finding a derivation of function:

here it is:

$$x$$

34 step: finding a derivation of function:

here it is:

$$1.000$$

35 step: finding a derivation of function:

here it is:

$$(x+y)$$

36 step: finding a derivation of function:

here it is:

$$2.000$$

37 step: finding a derivation of function:

here it is:

$$(x+y)^{2.000}$$

38 step: finding a derivation of function:

here it is:

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

39 step: finding a derivation of function:

here it is:

$$(-2.000)$$

40 step: finding a derivation of function:

here it is:

$$0.000$$

41 step: finding a derivation of function:

here it is:

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

42 step: finding a derivation of function:

here it is:

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

43 step: finding a derivation of function:

here it is:

$$2.000$$

44 step: finding a derivation of function:

here it is:

$$0.000$$

45 step: finding a derivation of function:

here it is:

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

46 step: finding a derivation of function:

here it is:

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

47 step: finding a derivation of function:

here it is:

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

48 step: finding a derivation of function:

here it is:

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

49 step: finding a derivation of function:

here it is:

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

50 step: finding a derivation of function:

here it is:

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

51 step: finding a derivation of function:

here it is:

$$x$$

52 step: finding a derivation of function:

here it is:

$$1.000$$

53 step: finding a derivation of function:

here it is:

$$x^{2.000}$$

54 step: finding a derivation of function:

here it is:

$$2.000 \cdot x$$

55 step: finding a derivation of function:

here it is:

$$3.000$$

56 step: finding a derivation of function:

here it is:

$$0.000$$

57 step: finding a derivation of function:

here it is:

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

58 step: finding a derivation of function:

here it is:

$$3.000 \cdot 2.000 \cdot x$$

59 step: finding a derivation of function:

here it is:

$$y$$

60 step: finding a derivation of function:

here it is:

$$1.000$$

61 step: finding a derivation of function:

here it is:

$$x$$

62 step: finding a derivation of function:

here it is:

$$1.000$$

63 step: finding a derivation of function:

here it is:

$$x+y$$

64 step: finding a derivation of function:

here it is:

$$2.000$$

65 step: finding a derivation of function:

here it is:

$$1.000$$

66 step: finding a derivation of function:

here it is:

$$2$$

here it is:

$$0.000$$

33 step: finding a derivation of function:

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

here it is:

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

34 step: finding a derivation of function:

$$2.000$$

here it is:

$$0.000$$

35 step: finding a derivation of function:

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

here it is:

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

36 step: finding a derivation of function:

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

here it is:

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

37 step: finding a derivation of function:

$$y$$

here it is:

$$1.000$$

38 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

39 step: finding a derivation of function:

$$(x+y)$$

here it is:

$$2.000$$

40 step: finding a derivation of function:

$$\ln(x+y)$$

here it is:

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

41 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

42 step: finding a derivation of function:

$$2.000$$

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:

$$3.000$$

here it is:

$$0.000$$

45 step: finding a derivation of function:

$$3.000 \cdot 2.000 \cdot x$$

here it is:

$$6.000$$

46 step: finding a derivation of function:

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

here it is:

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

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:

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

Finally... The 3 derivation of the expression:

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

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 = 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 remainig 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) =

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