

CrInGeCrInGe Production. Super cringe introduction here:  
 Let's calculate smth with expression given:

$$x^x \cdot y$$

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

$$x^x \cdot y$$

BRITISH SCIENTISTS WERE SHOCKED, WHEN THEY COUNT IT!!! IN  
 THE POINT (x = 1.500, y = 2.000)IT'S VALUE = 3.674 !!!

1 step: finding a derivation of function:

$$y$$

here it is:

$$1.000$$

2 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

3 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

4 step: finding a derivation of function:

$$x^x$$

here it is:

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

5 step: finding a derivation of function:

$$x^x \cdot y$$

here it is:

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

Congratulations! The first derivation of the expression is:

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

IN THE POINT (x = 1.500, y = 2.000)IT'S VALUE = 7.001 !!!

Let's calculate the 2 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 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

3 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

4 step: finding a derivation of function:

$$x^x$$

here it is:

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

5 step: finding a derivation of function:

$$x^x \cdot y$$

here it is:

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

Calculating the 2 derivation of the expression:

1 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

2 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

$$2$$

3 step: finding a derivation of function:

$$x^x$$

here it is:

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

4 step: finding a derivation of function:

$$y$$

here it is:

$$1.000$$

5 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

6 step: finding a derivation of function:

$$\ln x$$

here it is:

$$\frac{1.000}{x}$$

7 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

8 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

9 step: finding a derivation of function:

$$\frac{x}{x}$$

here it is:

$$\frac{x - x}{x^{2.000}}$$

10 step: finding a derivation of function:

$$\left(\frac{x}{x} + \ln x\right)$$

here it is:

$$\frac{x-x}{x^{2.000}} + \frac{1.000}{x}$$

11 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

12 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

13 step: finding a derivation of function:

$$x^x$$

here it is:

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

14 step: finding a derivation of function:

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

here it is:

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

15 step: finding a derivation of function:

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

here it is:

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

16 step: finding a derivation of function:

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

here it is:

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

Finally... The 2 derivation of the expression:

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

BRITISH SCIENTISTS WERE SHOCKED, WHEN THEY COUNT THE 2  
DERIVATION OF THIS EXPRESSION!!! IN THE POINT (x = 1.500, y =  
2.000)IT'S VALUE = 14.871 !!!

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

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

IN THE POINT (x = 1.500, y = 2.000) IT'S VALUE = 5.164009 !!!

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

$$1.837$$

IN THE POINT (x = 1.500, y = 2.000) IT'S VALUE = 1.837117 !!!

Full derivation:

$$\sqrt{(2.000 \cdot x^x \cdot \left(\frac{x}{x} + \ln x\right))^{2.000} + 3.375}$$

IN THE POINT (x = 1.500, y = 2.000)IT'S VALUE = 5.481 !!!

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

$$2.000 \cdot x^x$$

Maklorens formula for x near to 1.500000:

$$3.674 + 5.164 \cdot (x - 1.500) + 4.854 \cdot (x - 1.500)^{2.000} + 3.149 \cdot (x - 1.500)^{3.000}$$

And remainig member is o maloe from:

$$(x - 1.500)^{3.000}$$

Graph f(x):

Tangent equation in point 4.000: f(x) =

$$1221.783 \cdot (x - 4.000) + 512.000$$

Normal equation in point 4.000: f(x) =

$$(-0.001) \cdot (x - 4.000) + 512.000$$