

1 Some basic knowledge about researching problem...

Let's consider such such a given function: $f(x, y) = \sin(x \cdot y)^{1000}$

Firstly, let's simplify this expression (if possible): $f(x, y) = \sin(x \cdot y)^{1000}$

2 Exploration of the expression as a function of multiple variables

Calculation values of function in the point BRITISH SCIENTISTS WERE SHOCKED, WHEN THEY COUNT THIS!

In the point $M_0(x_0, y_0) = (13.142, 2.000)$ it's value $= 0.00000$

Therefore, I've chosen thought about that the reason of everything like that function... Here's you?

But now, I've doing derivation and such skills that I had that I'm prepared enough to calculate it!

1 step: Finding a derivation of x

While preparing for exams, I learned a lot of new things, for example:

$[x]^2 = ... = [\text{top secret}] = ... =$

1.000

2 step: Finding a derivation of x

It's really easy to find:

$[x]^2 = ... = [\text{top secret}] = ... =$

1.000

3 step: Finding a derivation of $x \cdot y$

My roommate reminded it is his deep all right:

$[x \cdot y]^2 = ... = [\text{top secret}] = ... =$

$x \cdot y^2 = ... = [\text{top secret}] = ... =$

4 step: Finding a derivation of $\sin(x \cdot y)$

Search logical that it is the same as:

$\sin(x \cdot y)^2 = ... = [\text{top secret}] = ... =$

5 step: Finding a derivation of $\sin(x \cdot y)^{1000}$

For instance, people have learned for the secret knowledge that:

$(\sin(x \cdot y)^{1000})^2 = ... = [\text{top secret}] = ... =$

1.000

6 step: Finding a derivation of $\cos(x \cdot y)$

Consequently, **The first derivation of the expression is**

$f(x, y) = 1.000 \cdot (\sin(x \cdot y)^{1000}) \cdot \cos(x \cdot y) \cdot (y \cdot x)$

In the point $M_0(x_0, y_0) = (13.142, 2.000)$ it's value $= 0.00000$

Finding the 3 derivation Let's find the 1 derivation of the expression:

1 step: Finding a derivation of x

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6 step: Finding a derivation of $\cos(x \cdot y)$

Let's find the 2 derivation of the expression:

1 step: Finding a derivation of x

Even my two-aged sister knows that:

$[x]^2 = ... = [\text{top secret}] = ... =$

1.000

2 step: Finding a derivation of x

When I was child, my father always told me: "Remember, son:

$[x \cdot y]^2 = ... = [\text{top secret}] = ... =$

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3 step: Finding a derivation of $x \cdot y$

I spent the half of my life to find the answer and finally it's:

$[x \cdot y]^2 = ... = [\text{top secret}] = ... =$

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4 step: Finding a derivation of y

What is that fact:

$[y]^2 = ... = [\text{top secret}] = ... =$

1.000

5 step: Finding a derivation of $x \cdot y$

For instance, people have learned for the secret knowledge that:

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6 step: Finding a derivation of $\sin(x \cdot y)$

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7 step: Finding a derivation of $\cos(x \cdot y)$

It's simple as fact:

$\cos(x \cdot y)^2 = ... = [\text{top secret}] = ... =$

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8 step: Finding a derivation of $\cos(x \cdot y) \cdot (y \cdot x)$

Thanks to the results of my colleagues' scientific work, I know that:

$\cos(x \cdot y) \cdot (y \cdot x)^2 = ... = [\text{top secret}] = ... =$

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9 step: Finding a derivation of x

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10 step: Finding a derivation of x

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11 step: Finding a derivation of $x \cdot y$

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12 step: Finding a derivation of $\sin(x \cdot y)$

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