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Let's calculate smth with a given function: f(x, y) = \sin x \cdot y^{2.000}
Firstly, let's insert all constants and simplify this expression: f(x, y) = \sin x \cdot y^{2.000}
BRITISH SCIENTISTS WERE SHOCKED, WHEN THEY COUNT IT!!!
In the point (x = 3.000, y = 2.000) it's value = 0.564
Personally, I've always thought about first derivation of something like that function... Haven't you?
But now, by using informatics and math skills I feel that I'm prepared enough to calculate it!
1 step. finding a derivation of:
While preparing for exams, I learned a lot of new things, for example: (y)' = 1.000
2 step. finding a derivation of:
It's really easy to find: (y^{2.000})' = 2.000 \cdot y
3 step. finding a derivation of:
My roommate mumbled it in his sleep all night: (x)' = 1.000
4 step. finding a derivation of:
Sounds logical that it is the same as: (\sin x)' = \cos x
5 step. finding a derivation of:
\sin x \cdot y^{2.000}
For centuries, people have hunted for the secret knowledge that: (\sin x \cdot y^{2.000})' = \cos x \cdot y^{2.000} + 2.000 \cdot y \cdot \sin x
Congratulations! The first derivation of the expression is:
\cos x \cdot y^{2.000} + 2.000 \cdot y \cdot \sin x In the point (x = 3.000, y = 2.000) it's value = -3.395
Let's calculate the 4 derivation of the expression:
Calculating the 1 derivation of the expression:
1 step. finding a derivation of:
Sounds logical that it is the same as: (y)' = 1.000
2 step. finding a derivation of:
It's really easy to find: (y^{2.000})' = 2.000 \cdot y
3 step. finding a derivation of:
My roommate mumbled it in his sleep all night: (x)' = 1.000
4 step. finding a derivation of:
\sin x
What if it equals: (\sin x)' = \cos x
5 step. finding a derivation of:
It's really easy to find: (\sin x \cdot y^{2.000})' = \cos x \cdot y^{2.000} + 2.000 \cdot y \cdot \sin x
Calculating the 2 derivation of the expression:
1 step. finding a derivation of:
Even my two-aged sister knows that it equals: (x)' = 1.000
2 step. finding a derivation of:
\sin x
When I was child, my father always told me: "Remember, son: (\sin x)' = \cos x
3 step. finding a derivation of:
I spend the hole of my life to find the answer and finally it's: (y)' = 1.000
4 step. finding a derivation of:
2.000
Man... Just look: (2.000)' = 0.000
5 step. finding a derivation of:
For centuries, people have hunted for the secret knowledge that: (2.000 \cdot y)' = 2.000
6 step. finding a derivation of:
2.000 \cdot y \cdot \sin x
It's really easy to find: (2.000 \cdot y \cdot \sin x)' = 2.000 \cdot \sin x + \cos x \cdot 2.000 \cdot y
7 step. finding a derivation of:
It's simple as fuck: (y)' = 1.000
8 step. finding a derivation of:
thanks to the results of my colleagues' scientific work, I know that it equals: (y^{2.000})' = 2.000 \cdot y
9 step. finding a derivation of:
When I was child, my father always told me: "Remember, son: (x)' = 1.000
10 step. finding a derivation of:
\cos x
It's really easy to find: (\cos x)' = (-1.000) \cdot \sin x
11 step. finding a derivation of:
\cos x \cdot y^{2.000}
I was asked not to tell anyone that: (\cos x \cdot y^{2.000})' = (-1.000) \cdot \sin x \cdot y^{2.000} + 2.000 \cdot y \cdot \cos x
12 step. finding a derivation of:
\cos x \cdot y^{2.000} + 2.000 \cdot y \cdot \sin x
For centuries, people have hunted for the secret knowledge that: (\cos x \cdot y^{2.000} + 2.000 \cdot y \cdot \sin x)' = (-1.000) \cdot \sin x \cdot y^{2.000} + 2.000 \cdot y \cdot \cos x + 2.000 \cdot \sin x + \cos x \cdot 2.000 \cdot y
Calculating the 3 derivation of the expression:
1 step. finding a derivation of:
My roommate mumbled it in his sleep all night: (y)' = 1.000
2 step. finding a derivation of:
2.000
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What if it equals: (2.000)' = 0.000
3 step. finding a derivation of:
Even my two-aged sister knows that it equals: (2.000 \cdot y)' = 2.000
4 step. finding a derivation of:
I spend the hole of my life to find the answer and finally it's: (x)' = 1.000
5 step. finding a derivation of:
Even my two-aged sister knows that it equals: (\cos x)' = (-1.000) \cdot \sin x
6 step. finding a derivation of:
\cos x \cdot 2.000 \cdot y
While preparing for exams, I learned a lot of new things, for example: (\cos x \cdot 2.000 \cdot y)' = (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x
7 step. finding a derivation of:
When I was child, my father always told me: "Remember, son: (x)' = 1.000
8 step. finding a derivation of:
Sounds logical that it is the same as: (\sin x)' = \cos x
9 step. finding a derivation of:
2.000
A true prince must know that it equals: (2.000)' = 0.000
10 step. finding a derivation of:
2.000 \cdot \sin x
My roommate mumbled it in his sleep all night: (2.000 \cdot \sin x)' = 2.000 \cdot \cos x
11 step. finding a derivation of:
2.000 \cdot \sin x + \cos x \cdot 2.000 \cdot y
My roommate mumbled it in his sleep all night: (2.000 \cdot \sin x + \cos x \cdot 2.000 \cdot y)' = 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x
12 step. finding a derivation of:
If someone asked me that in the middle of the night, I wouldn't hesitate to say: (x)' = 1.000
13 step. finding a derivation of:
A true prince must know that it equals: (\cos x)' = (-1.000) \cdot \sin x
14 step. finding a derivation of:
My roommate mumbled it in his sleep all night: (y)' = 1.000
15 step. finding a derivation of:
2.000
While preparing for exams, I learned a lot of new things, for example: (2.000)' = 0.000
16 step. finding a derivation of:
2.000 \cdot y
It's really easy to find: (2.000 \cdot y)' = 2.000
17 step. finding a derivation of:
2.000 \cdot y \cdot \cos x
It's really easy to find: (2.000 \cdot y \cdot \cos x)' = 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y
18 step. finding a derivation of:
When I was child, my father always told me: "Remember, son: (y)' = 1.000
19 step. finding a derivation of:
What if it equals: (y^{2.000})' = 2.000 \cdot y
20 step. finding a derivation of:
If someone asked me that in the middle of the night, I wouldn't hesitate to say: (x)' = 1.000
21 step. finding a derivation of:
thanks to the results of my colleagues' scientific work, I know that it equals: (\sin x)' = \cos x
22 step. finding a derivation of:
(-1.000)
A true prince must know that it equals: ((-1.000))' = 0.000
23 step. finding a derivation of:
(-1.000) \cdot \sin x
A true prince must know that it equals: ((-1.000) \cdot \sin x)' = (-1.000) \cdot \cos x
24 step. finding a derivation of:
(-1.000) \cdot \sin x \cdot y^{2.000}
When I was child, my father always told me: "Remember, son: ((-1.000) \cdot \sin x \cdot y^{2.000})' = (-1.000) \cdot \cos x \cdot y^{2.000} + 2.000 \cdot y \cdot (-1.000) \cdot \sin x
25 step. finding a derivation of:
(-1.000) \cdot \sin x \cdot y^{2.000} + 2.000 \cdot y \cdot \cos x
For centuries, people have hunted for the secret knowledge that: ((-1.000) \cdot \sin x \cdot y^{2.000} + 2.000 \cdot y \cdot \cos x)' = (-1.000) \cdot \cos x \cdot y^{2.000} + 2.000 \cdot y \cdot (-1.000) \cdot \sin x + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y
 26 step. finding a derivation of:
(-1.000) \cdot \sin x \cdot y^{2.000} + 2.000 \cdot y \cdot \cos x + 2.000 \cdot \sin x + \cos x \cdot 2.000 \cdot y
A true prince must know that it equals: ((-1.000) \cdot \sin x \cdot y^{2.000} + 2.000 \cdot y \cdot \cos x + 2.000 \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \cos x + (-1
Calculating the 4 derivation of the expression:
1 step. finding a derivation of:
I spend the hole of my life to find the answer and finally it's: (x)' = 1.000
2 step. finding a derivation of:
It's simple as fuck: (\cos x)' = (-1.000) \cdot \sin x
3 step. finding a derivation of:
2.000
For centuries, people have hunted for the secret knowledge that: (2.000)' = 0.000
4 step. finding a derivation of:
2.000 \cdot \cos x
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It's really easy to find: (2.000 \cdot \cos x)' = 2.000 \cdot (-1.000) \cdot \sin x
5 step. finding a derivation of:
It's really easy to find: (y)' = 1.000
6 step. finding a derivation of:
I spend the hole of my life to find the answer and finally it's: (2.000)' = 0.000
7 step. finding a derivation of:
2.000 \cdot y
I was asked not to tell anyone that: (2.000 \cdot y)' = 2.000
8 step. finding a derivation of:
If someone asked me that in the middle of the night, I wouldn't hesitate to say: (x)' = 1.000
9 step. finding a derivation of:
Even my two-aged sister knows that it equals: (\sin x)' = \cos x
10 step. finding a derivation of:
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I spend the hole of my life to find the answer and finally it's: ((-1.000))' = 0.000
11 step. finding a derivation of:
(-1.000) \cdot \sin x
It's really easy to find: ((-1.000) \cdot \sin x)' = (-1.000) \cdot \cos x
12 step. finding a derivation of:
(-1.000) \cdot \sin x \cdot 2.000 \cdot y
It's really easy to find: ((-1.000) \cdot \sin x \cdot 2.000 \cdot y)' = (-1.000) \cdot \cos x \cdot 2.000 \cdot y + 2.000 \cdot (-1.000) \cdot \sin x
13 step. finding a derivation of:
(-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x
It's simple as fuck: ((-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x)' = (-1.000) \cdot \cos x \cdot 2.000 \cdot y + 2.000 \cdot (-1.000) \cdot \sin x + 2.000 \cdot (-1.000) \cdot \sin x
14 step. finding a derivation of:
It's simple as fuck: (x)' = 1.000
15 step. finding a derivation of:
A true prince must know that it equals: (\cos x)' = (-1.000) \cdot \sin x
16 step. finding a derivation of:
2.000
My roommate mumbled it in his sleep all night: (2.000)' = 0.000
17 step. finding a derivation of:
2.000 \cdot \cos x
I was asked not to tell anyone that: (2.000 \cdot \cos x)' = 2.000 \cdot (-1.000) \cdot \sin x
18 step. finding a derivation of:
2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x
I spend the hole of my life to find the answer and finally it's: (2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot (-1.000) \cdot \sin x + (
19 step. finding a derivation of:
It's really easy to find: (y)' = 1.000
20 step. finding a derivation of:
2.000
What if it equals: (2.000)' = 0.000
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23 step. finding a derivation of:
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What if it equals: (\sin x)' = \cos x
24 step. finding a derivation of:
(-1.000)
It's simple as fuck: ((-1.000))' = 0.000
25 step. finding a derivation of:
(-1.000) \cdot \sin x
My roommate mumbled it in his sleep all night: ((-1.000) \cdot \sin x)' = (-1.000) \cdot \cos x
26 step. finding a derivation of:
(-1.000) \cdot \sin x \cdot 2.000 \cdot y
It's simple as fuck: ((-1.000) \cdot \sin x \cdot 2.000 \cdot y)' = (-1.000) \cdot \cos x \cdot 2.000 \cdot y + 2.000 \cdot (-1.000) \cdot \sin x
27 step. finding a derivation of:
A true prince must know that it equals: (x)' = 1.000
 28 step. finding a derivation of:
My roommate mumbled it in his sleep all night: (\cos x)' = (-1.000) \cdot \sin x
29 step. finding a derivation of:
A true prince must know that it equals: (2.000)' = 0.000
30 step. finding a derivation of:
2.000 \cdot \cos x
A true prince must know that it equals: (2.000 \cdot \cos x)' = 2.000 \cdot (-1.000) \cdot \sin x
31 step. finding a derivation of:
2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y
If someone asked me that in the middle of the night, I wouldn't hesitate to say: (2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y)' = 2.000 \cdot (-1.000) \cdot \sin x + (-1.000) \cdot \cos x \cdot 2.000 \cdot y + 2.000 \cdot (-1.000) \cdot \sin x
32 step. finding a derivation of:
I spend the hole of my life to find the answer and finally it's: (x)' = 1.000
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33 step. finding a derivation of:
When I was child, my father always told me: "Remember, son: (\sin x)' = \cos x
34 step. finding a derivation of:
If someone asked me that in the middle of the night, I wouldn't hesitate to say: ((-1.000))' = 0.000
35 step. finding a derivation of:
thanks to the results of my colleagues' scientific work, I know that it equals: ((-1.000) \cdot \sin x)' = (-1.000) \cdot \cos x
36 step. finding a derivation of:
For centuries, people have hunted for the secret knowledge that: (y)' = 1.000
37 step. finding a derivation of:
For centuries, people have hunted for the secret knowledge that: (2.000)' = 0.000
38 step. finding a derivation of:
2.000 \cdot y
What if it equals: (2.000 \cdot y)' = 2.000
39 step. finding a derivation of:
2.000 \cdot y \cdot (-1.000) \cdot \sin x
If someone asked me that in the middle of the night, I wouldn't hesitate to say: (2.000 \cdot y \cdot (-1.000) \cdot \sin x)' = 2.000 \cdot (-1.000) \cdot \sin x + (-1.000) \cdot \cos x \cdot 2.000 \cdot y
40 step. finding a derivation of:
I was asked not to tell anyone that: (y)' = 1.000
41 step. finding a derivation of:
A true prince must know that it equals: (y^{2.000})' = 2.000 \cdot y
42 step. finding a derivation of:
Man... Just look: (x)' = 1.000
43 step. finding a derivation of:
My roommate mumbled it in his sleep all night: (\cos x)' = (-1.000) \cdot \sin x
44 step. finding a derivation of:
(-1.000)
It's simple as fuck: ((-1.000))' = 0.000
45 step. finding a derivation of:
(-1.000) \cdot \cos x
I was asked not to tell anyone that: ((-1.000) \cdot \cos x)' = (-1.000) \cdot (-1.000) \cdot \sin x
46 step. finding a derivation of:
(-1.000) \cdot \cos x \cdot y^{2.000}
If someone asked me that in the middle of the night, I wouldn't hesitate to say: ((-1.000) \cdot \cos x \cdot y^{2.000})' = (-1.000) \cdot (-1.000) \cdot \sin x \cdot y^{2.000} + 2.000 \cdot y \cdot (-1.000) \cdot \cos x
47 step. finding a derivation of:
(-1.000) \cdot \cos x \cdot y^{2.000} + 2.000 \cdot y \cdot (-1.000) \cdot \sin x
Man... Just look: ((-1.000) \cdot \cos x \cdot y^{2.000} + 2.000 \cdot y \cdot (-1.000) \cdot \sin x)' = (-1.000) \cdot (-1.000) \cdot \sin x \cdot y^{2.000} + 2.000 \cdot y \cdot (-1.000) \cdot \cos x + 2.000 \cdot (-1.000) \cdot \sin x + (-1.000) \cdot \cos x \cdot 2.000 \cdot y
48 step. finding a derivation of:
(-1.000) \cdot \cos x \cdot y^{2.000} + 2.000 \cdot y \cdot (-1.000) \cdot \sin x + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y
When I was child, my father always told me: "Remember, son: ((-1.000) \cdot \cos x \cdot y^{2.000} + 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot (-1.
49 step. finding a derivation of:
(-1.000) \cdot \cos x \cdot y^{2.000} + 2.000 \cdot y \cdot (-1.000) \cdot \sin x + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \cos x 
It's really easy to find: ((-1.000) \cdot \cos x \cdot y^{2.000} + 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y \cdot (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \sin x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \cos x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \cos x \cdot 2.000 \cdot y + 2.000 \cdot \cos x + (-1.000) \cdot \cos x + (-1.000)
Finally... The 4 derivation of the expression:
(-1.000) \cdot (-1.000) \cdot \sin x \cdot y^{2.000} + 2.000 \cdot y \cdot (-1.000) \cdot \cos x + 2.000 \cdot (-1.000) \cdot \sin x + (-1.000) \cdot \cos x \cdot 2.000 \cdot y + 2.000 \cdot (-1.000) \cdot \sin x + (-1.000) 
BRITISH SCIENTISTS WERE SHOCKED AGAIN, WHEN THEY COUNT THE 4 DERIVATION OF THIS EXPRESSION!!!
In the point (x = 3.000, y = 2.000) it's value = 14.711
Partial derivation of the expression on the variable x:
   \frac{\partial f}{\partial x} = 4.000 \cdot \cos x
In the point (x = 3.000, y = 2.000) it's value = -3.959970!!!
Partial derivation of the expression on the variable y:
  \frac{\partial f}{\partial y} = 0.141 \cdot 2.000 \cdot y
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In the point (x = 3.000, y = 2.000) it's value = 0.564480 !!!

Let's consider the expression as a function of x variable:  $f(x) = 4.000 \cdot \sin x$ 

 $\sqrt{(4.000 \cdot \cos x)^{2.000} + (0.141 \cdot 2.000 \cdot y)^{2.000}}$  In the point (x = 3.000, y = 2.000) it's value = 4.000!!!

Maklorens formula for  $x \to 3.000$ :  $f(x) = 0.564 + (-3.960) \cdot (x - 3.000) + (-0.282) \cdot (x - 3.000)^{2.000} + 0.660 \cdot (x - 3.000)^{3.000} + 0.024 \cdot (x - 3.000)^{4.000} + (-0.033) \cdot (x - 3.000)^{5.000} + o((x - 3.000)^{5.000})$ 

Full derivation:

Graph f(x):

Tangent equation in the point  $\mathbf{x} = 0.000$ :  $\mathbf{f}(\mathbf{x}) = 4.000 \cdot x$ Normal equation in the point  $\mathbf{x} = 0.000$ :  $\mathbf{f}(\mathbf{x}) = (-0.250) \cdot (x - 0.000) + 0.000$