sectionIntroduction

Man... Just look:

 $(y)' = \dots = [\text{top secret}] = \dots =$ 

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1 Some basic knowledge about researching problem...
 Let's calculate smth with a given function: f(x, y) = (\sin x \cdot y)^{3.000}
   Firstly, let's simplify this expression (if possible): f(x, y) = (\sin x \cdot y)^{3.000}
2 Exploration of the expression as a function of multiple variables
 Calculation value of function in the point BRITISH SCIENTISTS WERE SHOCKED, WHEN THEY COUNT IT!!!
   In the point M_0(x_0, y_0) = (3.142, 0.000) it's value = 0.00000
    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 y
    While preparing for exams, I learned a lot of new things, for example:
    (y)' = \dots = [\text{top secret}] = \dots =
 = 1.000
   2 step: Finding a derivation of x
   It's really easy to find:
   (x)' = \dots = [\text{top secret}] = \dots =
 = 1.000
   3 step: Finding a derivation of x \cdot y
   My roommate mumbled it in his sleep all night:
   (x \cdot y)' = \dots = [\text{top secret}] = \dots =
 = y + x
   4 step: Finding a derivation of \sin x \cdot y
    Sounds logical that it is the same as:
   (\sin x \cdot y)' = \dots = [\text{top secret}] = \dots =
 = \cos x \cdot y \cdot (y+x)
   5 step: Finding a derivation of (\sin x \cdot y)^{3.000}
    For centuries, people have hunted for the secret knowledge that:
((\sin x \cdot y)^{3.000})' = \dots = [\text{top secret}] = \dots =
= 3.000 \cdot (\sin x \cdot y)^{2.000} \cdot \cos x \cdot y \cdot (y + x)
   Congratulations! The first derivation of the expression is:
    f'(x, y) = 3.000 \cdot (\sin x \cdot y)^{2.000} \cdot \cos x \cdot y \cdot (y + x)
   In the point M_0(x_0, y_0) = (3.142, 0.000) it's value = 0.00000
 Finding the 3 derivation Let's find the 1 derivation of the expression:
   1 step: Finding a derivation of y
   Sounds logical that it is the same as:
    (y)' = \dots = [\text{top secret}] = \dots =
 = 1.000
   2 step: Finding a derivation of x
   It's really easy to find:
   (x)' = \dots = [\text{top secret}] = \dots =
 = 1.000
   3 step: Finding a derivation of x \cdot y
   My roommate mumbled it in his sleep all night:
   (x \cdot y)' = \dots = [\text{top secret}] = \dots =
 = y + x
   4 step: Finding a derivation of \sin x \cdot y What if:
   (\sin x \cdot y)' = \dots = [\text{top secret}] = \dots =
 = \cos x \cdot y \cdot (y+x)
   5 step: Finding a derivation of (\sin x \cdot y)^{3.000}
It's really easy to find:

((\sin x \cdot y)^{3.000})' = \dots = [\text{top secret}] = \dots =
= 3.000 \cdot (\sin x \cdot y)^{2.000} \cdot \cos x \cdot y \cdot (y+x)
   Let's find the 2 derivation of the expression:
    1 step: Finding a derivation of x
    Even my two-aged sister knows that:
    (x)' = \dots = [\text{top secret}] = \dots =
   2 step: Finding a derivation of y
   When I was child, my father always told me: "Remember, son:
    (y)' = \dots = [\text{top secret}] = \dots =
   3 step: Finding a derivation of y + x
    I spend the hole of my life to find the answer and finally it's:
    (y+x)' = \dots = [\text{top secret}] = \dots =
 = 2.000
   4 step: Finding a derivation of y
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CrInGeCrInGeProduction. Supercringe introduction here:

5 step: Finding a derivation of xFor centuries, people have hunted for the secret knowledge that:  $(x)' = \dots = [\text{top secret}] = \dots =$ = 1.0006 step: Finding a derivation of  $x \cdot y$ It's really easy to find:  $(x \cdot y)' = \dots = [\text{top secret}] = \dots =$ = y + x7 step: Finding a derivation of  $\cos x \cdot y$ It's simple as fuck:  $(\cos x \cdot y)' = \dots = [\text{top secret}] = \dots =$  $= (-1.000) \cdot \sin x \cdot y \cdot (y+x)$ 8 step: Finding a derivation of  $\cos x \cdot y \cdot (y+x)$ thanks to the results of my colleagues' scientific work, I know that:  $(\cos x \cdot y \cdot (y+x))' = \dots = [\text{top secret}] = \dots =$  $= (-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x) + 2.000 \cdot \cos x \cdot y$ 9 step: Finding a derivation of y When I was child, my father always told me: "Remember, son:  $(y)' = \dots = [\text{top secret}] = \dots =$ 10 step: Finding a derivation of xIt's really easy to find:  $(x)' = \dots = [\text{top secret}] = \dots =$ = 1.00011 step: Finding a derivation of  $x \cdot y$ I was asked not to tell anyone that:  $(x \cdot y)' = \dots = [\text{top secret}] = \dots =$ = y + x12 step: Finding a derivation of  $\sin x \cdot y$ For centuries, people have hunted for the secret knowledge that:  $(\sin x \cdot y)' = \dots = [\text{top secret}] = \dots =$  $=\cos x \cdot y \cdot (y+x)$ 13 step: Finding a derivation of  $(\sin x \cdot y)^{2.000}$ My roommate mumbled it in his sleep all night:  $((\sin x \cdot y)^{2.000})' = \dots = [\text{top secret}] = \dots =$  $= 2.000 \cdot \sin x \cdot y \cdot \cos x \cdot y \cdot (y+x)$ 14 step: Finding a derivation of 3.000 What if:  $(3.000)' = \dots = [\text{top secret}] = \dots =$ = 0.00015 step: Finding a derivation of  $3.000 \cdot (\sin x \cdot y)^{2.000}$ Even my two-aged sister knows that:  $(3.000 \cdot (\sin x \cdot y)^{2.000})' = \dots = [\text{top secret}] = \dots =$  $=3.000 \cdot 2.000 \cdot \sin x \cdot y \cdot \cos x \cdot y \cdot (y+x)$ 16 step: Finding a derivation of  $3.000 \cdot (\sin x \cdot y)^{2.000} \cdot \cos x \cdot y \cdot (y+x)$ I spend the hole of my life to find the answer and finally it's:  $(3.000 \cdot (\sin x \cdot y)^{2.000} \cdot \cos x \cdot y \cdot (y+x))' = \dots = [\text{top secret}] = \dots =$  $=3.000 \cdot 2.000 \cdot \sin x \cdot y \cdot \cos x \cdot y \cdot (y+x) \cdot \cos x \cdot y \cdot (y+x) + ((-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x) + 2.000 \cdot \cos x \cdot y) \cdot 3.000 \cdot (\sin x \cdot y)^{2.000}$ Let's find the 3 derivation of the expression: 1 step: Finding a derivation of yEven my two-aged sister knows that:  $(y)' = \dots = [\text{top secret}] = \dots =$ = 1.0002 step: Finding a derivation of x While preparing for exams, I learned a lot of new things, for example:  $(x)' = \dots = [\text{top secret}] = \dots =$ = 1.0003 step: Finding a derivation of  $x \cdot y$ When I was child, my father always told me: "Remember, son:  $(x \cdot y)' = \dots = [\text{top secret}] = \dots =$ = y + x4 step: Finding a derivation of  $\sin x \cdot y$ Sounds logical that it is the same as:  $(\sin x \cdot y)' = \dots = [\text{top secret}] = \dots =$  $=\cos x \cdot y \cdot (y+x)$ 5 step: Finding a derivation of  $(\sin x \cdot y)^{2.000}$ A true prince must know that:  $((\sin x \cdot y)^{2.000})' = \dots = [\text{top secret}] = \dots =$  $= 2.000 \cdot \sin x \cdot y \cdot \cos x \cdot y \cdot (y+x)$ 6 step: Finding a derivation of 3.000 My roommate mumbled it in his sleep all night:  $(3.000)' = \dots = [\text{top secret}] = \dots =$ = 0.0007 step: Finding a derivation of  $3.000 \cdot (\sin x \cdot y)^{2.000}$ My roommate mumbled it in his sleep all night:  $(3.000 \cdot (\sin x \cdot y)^{2.000})' = \dots = [\text{top secret}] = \dots =$  $= 3.000 \cdot 2.000 \cdot \sin x \cdot y \cdot \cos x \cdot y \cdot (y+x)$ 

8 step: Finding a derivation of y

If someone asked me that in the middle of the night, I wouldn't hesitate to say:  $(y)' = \dots = [\text{top secret}] = \dots =$ 9 step: Finding a derivation of xA true prince must know that:  $(x)' = \dots = [\text{top secret}] = \dots =$ = 1.00010 step: Finding a derivation of  $x \cdot y$ My roommate mumbled it in his sleep all night:  $(x \cdot y)' = \dots = [\text{top secret}] = \dots =$ = y + x11 step: Finding a derivation of  $\cos x \cdot y$ While preparing for exams, I learned a lot of new things, for example:  $(\cos x \cdot y)' = \dots = [\text{top secret}] = \dots =$  $= (-1.000) \cdot \sin x \cdot y \cdot (y+x)$ 12 step: Finding a derivation of 2.000 It's really easy to find:  $(2.000)' = \dots = [\text{top secret}] = \dots =$ = 0.00013 step: Finding a derivation of  $2.000 \cdot \cos x \cdot y$ It's really easy to find:  $(2.000 \cdot \cos x \cdot y)' = \dots = [\text{top secret}] = \dots =$  $= 2.000 \cdot (-1.000) \cdot \sin x \cdot y \cdot (y + x)$ 14 step: Finding a derivation of xWhen I was child, my father always told me: "Remember, son:  $(x)' = \dots = [\text{top secret}] = \dots =$ 15 step: Finding a derivation of yWhat if:  $(y)' = \dots = [\text{top secret}] = \dots =$ = 1.00016 step: Finding a derivation of y + xIf someone asked me that in the middle of the night, I wouldn't hesitate to say:  $(y+x)' = \dots = [\text{top secret}] = \dots =$ = 2.00017 step: Finding a derivation of xthanks to the results of my colleagues' scientific work, I know that:  $(x)' = \dots = [\text{top secret}] = \dots =$ = 1.00018 step: Finding a derivation of yA true prince must know that:  $(y)' = \dots = [\text{top secret}] = \dots =$ = 1.00019 step: Finding a derivation of y + xA true prince must know that:  $(y+x)' = \dots = [\text{top secret}] = \dots =$ = 2.00020 step: Finding a derivation of yWhen I was child, my father always told me: "Remember, son:  $(y)' = \dots = [\text{top secret}] = \dots =$ 21 step: Finding a derivation of xFor centuries, people have hunted for the secret knowledge that:  $(x)' = \dots = [\text{top secret}] = \dots =$ = 1.00022 step: Finding a derivation of  $x \cdot y$ A true prince must know that:  $(x \cdot y)' = \dots = [\text{top secret}] = \dots =$ = y + x23 step: Finding a derivation of  $\sin x \cdot y$ I spend the hole of my life to find the answer and finally it's:  $(\sin x \cdot y)' = \dots = [\text{top secret}] = \dots =$  $=\cos x \cdot y \cdot (y+x)$ 24 step: Finding a derivation of -1.000It's simple as fuck:  $(-1.000)' = \dots = [\text{top secret}] = \dots =$ = 0.00025 step: Finding a derivation of  $(-1.000) \cdot \sin x \cdot y$ For centuries, people have hunted for the secret knowledge that:  $((-1.000) \cdot \sin x \cdot y)' = \dots = [\text{top secret}] = \dots =$  $= (-1.000) \cdot \cos x \cdot y \cdot (y+x)$ 26 step: Finding a derivation of  $(-1.000) \cdot \sin x \cdot y \cdot (y+x)$ It's really easy to find:  $((-1.000) \cdot \sin x \cdot y \cdot (y+x))' = \dots = [\text{top secret}] = \dots =$  $= (-1.000) \cdot \cos x \cdot y \cdot (y+x) \cdot (y+x) + 2.000 \cdot (-1.000) \cdot \sin x \cdot y$ 27 step: Finding a derivation of  $(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)$ It's really easy to find:

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((-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x))' = \dots = [\text{top secret}] = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x)]' = \dots = [(-1.000) \cdot (y+x) \cdot (y
= ((-1.000) \cdot \cos x \cdot y \cdot (y+x) \cdot (y+x) + 2.000 \cdot (-1.000) \cdot \sin x \cdot y) \cdot (y+x) + 2.000 \cdot (-1.000) \cdot \sin x \cdot y \cdot (y+x)
       28 step: Finding a derivation of (-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x) + 2.000 \cdot \cos x \cdot y
         I spend the hole of my life to find the answer and finally it's:
         = ((-1.000) \cdot \cos x \cdot y \cdot (y+x) \cdot (y+x) + 2.000 \cdot (-1.000) \cdot \sin x \cdot y) \cdot (y+x) + 2.000 \cdot (-1.000) \cdot \sin x \cdot y \cdot (y+x) + 2.000 \cdot (-1.000) \cdot \sin x \cdot y \cdot (y+x)
       29 step: Finding a derivation of ((-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x) + 2.000 \cdot \cos x \cdot y) \cdot 3.000 \cdot (\sin x \cdot y)^{2.000}
         I was asked not to tell anyone that:
       (((-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x) + 2.000 \cdot \cos x \cdot y) \cdot 3.000 \cdot (\sin x \cdot y)^{2.000})' = \dots = [\text{top secret}] = \dots = [\text{top secret}]
=(((-1.000)\cdot\cos x\cdot y\cdot (y+x)+2.000\cdot (-1.000)\cdot\sin x\cdot y)\cdot (y+x)+2.000\cdot (-1.000)\cdot\sin x\cdot y\cdot (y+x)+2.000\cdot (-1.000)\cdot 
         If someone asked me that in the middle of the night, I wouldn't hesitate to say:
         (x)' = \dots = [\text{top secret}] = \dots =
       31 step: Finding a derivation of y
         Even my two-aged sister knows that:
         (y)' = \dots = [\text{top secret}] = \dots =
= 1.000
       32 step: Finding a derivation of y + x
         I spend the hole of my life to find the answer and finally it's:
         (y+x)' = \dots = [\text{top secret}] = \dots =
= 2.000
       33 step: Finding a derivation of y
       It's really easy to find:
         (y)' = \dots = [\text{top secret}] = \dots =
= 1.000
       34 step: Finding a derivation of x
       It's really easy to find:
       (x)' = \dots = [\text{top secret}] = \dots =
       35 step: Finding a derivation of x \cdot y
         It's simple as fuck:
       (x \cdot y)' = \dots = [\text{top secret}] = \dots =
= y + x
         36 step: Finding a derivation of \cos x \cdot y
       It's simple as fuck:
         (\cos x \cdot y)' = \dots = [\text{top secret}] = \dots =
= (-1.000) \cdot \sin x \cdot y \cdot (y+x)
         37 step: Finding a derivation of \cos x \cdot y \cdot (y+x)
         A true prince must know that:
       (\cos x \cdot y \cdot (y+x))' = \dots = [\text{top secret}] = \dots =
= (-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x) + 2.000 \cdot \cos x \cdot y
       38 step: Finding a derivation of x
         My roommate mumbled it in his sleep all night:
         (x)' = \dots = [\text{top secret}] = \dots =
= 1.000
       39 step: Finding a derivation of y
       I was asked not to tell anyone that:
         (y)' = \dots = [\text{top secret}] = \dots =
= 1.000
       40 step: Finding a derivation of y + x
         I spend the hole of my life to find the answer and finally it's:
         (y+x)' = \dots = [\text{top secret}] = \dots =
= 2.000
       41 step: Finding a derivation of y
       It's really easy to find:
         (y)' = \dots = [\text{top secret}] = \dots =
= 1.000
         42 step: Finding a derivation of x
         What if:
       (x)' = \dots = [\text{top secret}] = \dots =
= 1.000
       43 step: Finding a derivation of x \cdot y
         While preparing for exams, I learned a lot of new things, for example:
       (x \cdot y)' = \dots = [\text{top secret}] = \dots =
= y + x
       44 step: Finding a derivation of \cos x \cdot y
       Even my two-aged sister knows that:
       (\cos x \cdot y)' = \dots = [\text{top secret}] = \dots =
= (-1.000) \cdot \sin x \cdot y \cdot (y+x)
       45 step: Finding a derivation of \cos x \cdot y \cdot (y+x)
         (\cos x \cdot y \cdot (y+x))' = \dots = [\text{top secret}] = \dots =
= (-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x) + 2.000 \cdot \cos x \cdot y
         46 step: Finding a derivation of y
       It's simple as fuck:
       (y)' = \dots = [\text{top secret}] = \dots =
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My roommate mumbled it in his sleep all night: My roommate mumbled it in his sleep all night: 51 step: Finding a derivation of  $2.000 \cdot \sin x \cdot y$  $(2.000 \cdot \sin x \cdot y)' = \dots = [\text{top secret}] = \dots =$ 52 step: Finding a derivation of  $2.000 \cdot \sin x \cdot y \cdot \cos x \cdot y \cdot (y+x)$  $(2.000 \cdot \sin x \cdot y \cdot \cos x \cdot y \cdot (y+x))' = \dots = [\text{top secret}] = \dots =$  $=2.000\cdot\cos x\cdot y\cdot (y+x)\cdot\cos x\cdot y\cdot (y+x)+((-1.000)\cdot\sin x\cdot y\cdot (y+x)\cdot (y+x)+2.000\cdot\cos x\cdot y)\cdot 2.000\cdot\sin x\cdot y$ If someone asked me that in the middle of the night, I wouldn't hesitate to say: 54 step: Finding a derivation of  $3.000 \cdot 2.000 \cdot \sin x \cdot y \cdot \cos x \cdot y \cdot (y+x)$ I spend the hole of my life to find the answer and finally it's:  $(3.000 \cdot 2.000 \cdot \sin x \cdot y \cdot \cos x \cdot y \cdot (y+x))' = \dots = [\text{top secret}] = \dots =$  $= 3.000 \cdot (2.000 \cdot \cos x \cdot y \cdot (y+x) \cdot \cos x \cdot y \cdot (y+x) + ((-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x) + 2.000 \cdot \cos x \cdot y) \cdot 2.000 \cdot \sin x \cdot y)$ 55 step: Finding a derivation of  $3.000 \cdot 2.000 \cdot \sin x \cdot y \cdot \cos x \cdot y \cdot (y+x) \cdot \cos x \cdot y \cdot (y+x)$ When I was child, my father always told me: "Remember, son:  $(3.000 \cdot 2.000 \cdot \sin x \cdot y \cdot \cos x \cdot y \cdot (y+x) \cdot \cos x \cdot y \cdot (y+x))' = \dots = [\text{top secret}] = \dots = [\text{top secret}]$  $= 3.000 \cdot (2.000 \cdot \cos x \cdot y \cdot (y+x) + ((-1.000) \cdot \sin x \cdot y \cdot (y+x)$ 56 step: Finding a derivation of  $3.000 \cdot 2.000 \cdot \sin x \cdot y \cdot \cos x \cdot y \cdot (y+x) \cdot \cos x \cdot y \cdot (y+x) + ((-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x) + 2.000 \cdot \cos x \cdot y) \cdot 3.000 \cdot (\sin x \cdot y)^{2.000}$ If someone asked me that in the middle of the night, I wouldn't hesitate to say:  $(3.000 \cdot 2.000 \cdot \sin x \cdot y \cdot \cos x \cdot y \cdot (y+x) \cdot \cos x \cdot y \cdot (y+x) + ((-1.000) \cdot \sin x \cdot y \cdot (y+x) \cdot (y+x) + 2.000 \cdot \cos x \cdot y) \cdot 3.000 \cdot (\sin x \cdot y)^{2.000})' = \dots = [\text{top secret}] = [\text$  $= 3.000 \cdot (2.000 \cdot \cos x \cdot y \cdot (y + x) + ((-1.000) \cdot \sin x \cdot y \cdot$ Finally... The 3 derivation of the expression:  $f^{(3)}(\mathbf{x},\mathbf{y}) = 3.000 \cdot (2.000 \cdot \cos x \cdot y \cdot (y+x) + ((-1.000) \cdot \sin x \cdot y \cdot (y+x) + ((-1.000$ BRITISH SCIENTISTS WERE SHOCKED AGAIN, WHEN THEY COUNT THE 3 DERIVATION OF THIS EXPRESSION!!! In the point  $M_0(x_0, y_0) = (3.142, 0.000)$  it's value = 186.02120 Finding partical derivations Partial derivation of the expression on the variable x: In the point  $M_0(x_0, y_0) = (3.142, 0.000)$  it's value = 0.00000!!! Partial derivation of the expression on the variable y:  $\frac{\partial f}{\partial y} = 3.000 \cdot (\sin 3.142 \cdot y)^{2.000} \cdot 3.142 \cdot \cos 3.142 \cdot y$ In the point  $M_0(x_0, y_0) = (3.142, 0.000)$  it's value = 0.00000!!!

## 3 Exploration the expression as a function of the first variable

Now let's consider the expression as a function of x variable:  $f(x) = (\sin 0.000)^{3.000}$ 

In the point  $M_0(x_0, y_0) = (3.142, 0.000)$  it's value = 0.00000!!!

Decomposing on Macloren's formula Maklorens formula for  $x \to x_0 = 3.142$ :  $f(x) = 0.000 + o((x - 3.142)^{4.000})$ 

**Graphics** Graph  $f = (\sin 0.000)^{3.000}$  on the diapasone [-10:10]:

47 step: Finding a derivation of x

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

49 step: Finding a derivation of  $\sin x \cdot y$ 

50 step: Finding a derivation of 2.000

 $(2.000)' = \dots = [\text{top secret}] = \dots =$ 

A true prince must know that:

A true prince must know that:

53 step: Finding a derivation of 3.000

 $(3.000)' = \dots = [\text{top secret}] = \dots =$ 

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

 $(x)' = \dots = [\text{top secret}] = \dots =$ 

 $(x \cdot y)' = \dots = [\text{top secret}] = \dots =$ 

A true prince must know that:  $(\sin x \cdot y)' = \dots = [\text{top secret}] = \dots =$ 

It's simple as fuck:

 $= \cos x \cdot y \cdot (y+x)$ 

= 1.000

= y + x

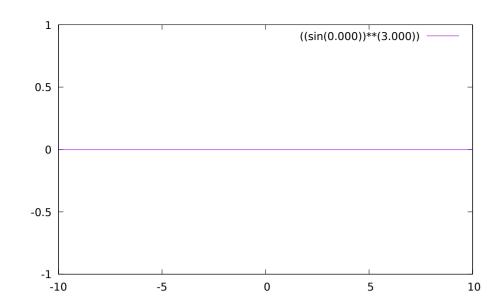
= 0.000

= 0.000

 $\frac{\partial f}{\partial x} = 0.000$ 

Finding full derivation Full derivation:

 $\sqrt{(3.000 \cdot (\sin 3.142 \cdot y)^{2.000} \cdot 3.142 \cdot \cos 3.142 \cdot y)^{2.00}}$ 



## Equations in the point Tangent equation in the point $x_0 = 1.000$ : f(x) = 0.000 **Normal equation** in the point $x_0 = 1.000$ : x = 0.000

