"What to say in front of the blackboard" – a brief tutorial

Exercise: Calculate the derivative of $\mathbf{4^x * \log_4 x}$

$(4^x * \log_4 x)' =$ $(4^x * \ln 4)\log_4 x$ + $4^x \ln 4 / x$

the derivative of four to the power of x multiplied by the logarithm to base four of x

using product rule we calculate the derivative of the first function and multiply it by the second unchanged function , after that…

…we add the product of the first function and the derivative of the second function which gives us: four to the power of x times the natural logarithm of four times the logarithm to base four of x, plus four to the power of x times the natural logarithm of four divided by x

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