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jul 13 2015 8 the differential of a function at is simply the linear function which produces the best linear approximation of in a neighbourhood of specifically among the linear functions that take the

dec 21 2025 i was solving a physics problem and the solution involves solving a differential equation that s of the form

mar 10 2025 the main difference between a differential such as dx $d x$ dy $d y$ or more generally df $d f$ for a function f f of several variables and a differential form is generality a differential is a 1 form

see this answer in quora what is the difference between derivative and differential in simple words the rate of change of function is called as a derivative and differential is the actual change of

jul 21 2018 73 can someone please informally but intuitively explain what differential form mean i know that there is of course some formalism behind it definition and possible operations with

nov 3 2016 i mean we are defining differential by differential itself can we define differential more precisely and rigorously p s is it possible to define differential simply as the limit of a difference as

dec 30 2025 how to solve this ordinary differential equation ask question asked 19 days ago modified 17 days ago

2 days ago differential geometry is the application of differential calculus in the setting of smooth manifolds curves surfaces and higher dimensional examples modern differential geometry focuses

oct 3 2019 to define a differential a little more rigorously let s say that every equation relation has a foundational independent variable that all the others are ultimately dependent upon even if we don t

jun 8 2013 2 one could define a linear differential equation as one in which linear combinations of its solutions are also solutions

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