

chain rule: multivariable functions

If $f(x(t), y(t))$, and both x and y are functions of a single variable t , then:

$$\frac{df(x(t), y(t))}{dt} = \frac{\partial f}{\partial x} \frac{dx}{dt} + \frac{\partial f}{\partial y} \frac{dy}{dt}$$

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