**On Some Definitions of Fractional Derivatives and Integrations**

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**ABSTRACT**

A relatively untapped branch of calculus, Fractional Calculus deals with integral and differential operators of non-integer order, as well as resolving differential equations consisting of said operators. This Research project reviews and examines certain properties, definitions, and examples of fractional integrals, Riemann-Liouville fractional derivatives, Caputo fractional derivatives and Caputo-Fabrizio fractional derivatives. In addition, this project also analyses similarities and differences between these definitions.

Keywords**:** *Fractional derivatives, Fractional Integration, Caputo derivatives, Riemann- Lioville derivatives, Caputo-Fabrizio*

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