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Usually defined For A Natural Number, If A Gamma Function And A Digamma Function Are Apr 1th, 2024.

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Liouville, B. Riemann And Others, Contributed To The Development Of The Fractional Calculus. The Theo Apr 7th, 2024 Fractional Calculus: Definitions And Applications 1.2 Definition Of Fractional Calculus Over The Years, Many Mathematicians, Using Their Own Notation And Approach, Have Found Various Definitions That Fit The Idea Of A Non-integer Order Integral Or Derivative. One Version That Has Been Popularized In The World Of Fractional Calculus Is The Riemann-Liouville Definition. Cited By: 5 Publish Year: 2009 Author: Joseph M. Kimeu Created Dat Jan 7th, 2024 On Tempered And Substantial Fractional Calculus Keywords—Fractional Calculus, Tempered Fractional Calculus, Substantial Fractional Calculus, Anomalous Diffusion I. INTRODUCTION The Process Of Anomalous Diffusion Is One Of Common Phenomena In Nature, And The Continuous Time Random Walks (CTRWs) Framework [1] Is A Useful Tool To Describe Mar 1th, 2024.

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Characteristic Of Fractional Calculus Is The Development Of Multiple Definitions For The  $\alpha$  Order Derivative. In This Paper We Will Focus On The Riemann-Liouville Form And The Caputo Form. Definition 1.2: Let  $\alpha \in \mathbb{R}^+$ , And  $m = \lceil \alpha \rceil$ . Where  $\lceil \cdot \rceil$  Is The Ceiling Function Defined As The Smallest Integer Greater Than . Then The Riemann-Liouville Form Feb 4th, 2024.

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Application Of Fractional Calculus In Modeling And Solving ...Application Of Fractional Calculus In Modeling And Solving The Bioheat Equation R. Magin<sup>1</sup>, Y. Sagher<sup>2</sup> & S. Boregowda<sup>1,3</sup> <sup>1</sup>Department Of Bioengineering, University Of Illinois At Chicago, USA <sup>2</sup>Department Of Mathematical Sciences, Florida Atlantic University, USA <sup>3</sup>University Of Chicago Graduate School Of Business, USA Abstract Fractional Calculus May 3th, 2024

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