

Real Infinite Series

$$1 + \frac{2}{3} + \frac{2}{9} + \frac{2}{27} + \frac{2}{81} + \dots = \sum_{n=0}^{\infty} \frac{2}{2^n + 1}$$

$$\sum_{n=1}^{\infty} \frac{1}{n(n+1)} = \sum_{n=1}^{\infty} \left(\frac{1}{n} - \frac{1}{n+1} \right) = 1$$

$$\sum_{n=1}^{\infty} \frac{1}{2\sqrt{n}} \geq \sum_{n=1}^{\infty} \frac{1}{n+1}$$

$$1 + \frac{1}{4} + \frac{1}{9} + \frac{1}{16} + \dots = \sum_{n=1}^{\infty} \frac{1}{\sqrt{n}}$$

$$\sum_{n=1}^{\infty} \frac{1}{2\sqrt{n}} \geq \sum_{n=1}^{\infty} \frac{1}{\sqrt{n} + \sqrt{n}}$$

$$1 + \frac{2}{3} + \frac{2}{9} + \frac{2}{27} + \dots = \sum_{n=0}^{\infty} \frac{2}{2^n + 1}$$

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 MAA PRESS

An imprint of the
 AMERICAN MATHEMATICAL SOCIETY

Real Infinite Series

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Real Infinite Series:

Real Infinite Series Daniel D. Bonar, Michael J. Khoury Jr., 2018-12-12 This is a widely accessible introductory treatment of infinite series of real numbers bringing the reader from basic definitions and tests to advanced results An up to date presentation is given making infinite series accessible interesting and useful to a wide audience including students teachers and researchers Included are elementary and advanced tests for convergence or divergence the harmonic series the alternating harmonic series and closely related results One chapter offers 107 concise crisp surprising results about infinite series Another gives problems on infinite series and solutions which have appeared on the annual William Lowell Putnam Mathematical Competition The lighter side of infinite series is treated in the concluding chapter where three puzzles eighteen visuals and several fallacious proofs are made available Three appendices provide a listing of true or false statements answers to why the harmonic series is so named and an extensive list of published works on infinite series

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and the Leibniz Test for alternating series Unit III Limits and Continuity understand the limits of real valued functions the concept of continuity and uniform continuity through rigorous yet simplified explanations Unit IV Differentiation and Mean Value Theorems grasp the essence of differentiation and delve into the profound implications of Rolle's Lagrange's and Cauchy's Mean Value Theorems Unit V Riemann Integration achieve a deep understanding of the Riemann integral exploring the properties of integrable functions the Fundamental Theorem of Calculus and its practical applications as a limit of sums Whether you're preparing for exams or aiming to deepen your mathematical expertise this book is your ultimate companion on this mathematical journey

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