

- a) $1 - x + x^2 - x^3 + \dots = \frac{\sqrt{2}}{2}$
- b) $x - 2x^2 + x^3 - 2x^4 + \dots = -\frac{2}{5}$
- c) $3 + \frac{3}{2+x} + \frac{3}{(2+x)^2} + \frac{3}{(2+x)^3} + \dots = -2$
- d) $3^x + 9^x + 27^x + 81^x + \dots = \frac{1}{2}$
- e) $\log x + \log \sqrt{x} + \log \sqrt[4]{x} + \log \sqrt[8]{x} + \dots = 2$
- f) $\log_9 x + (\log_9 x)^2 + (\log_9 x)^3 + \dots = 1$
- g) $\log_{\frac{1}{8}} x + (\log_{\frac{1}{8}} x)^2 + (\log_{\frac{1}{8}} x)^3 + \dots = -\frac{1}{4}$
- h) $\frac{1}{x} + \frac{1}{x^2} + \frac{1}{x^3} + \frac{1}{x^4} + \dots = x + 1$
- i) $1 + \frac{1}{3+x} + \frac{1}{(3+x)^2} + \frac{1}{(3+x)^3} + \dots = 3 + x$
- j) $\frac{1}{1+x} + \frac{1}{(1+x)^2} + \frac{1}{(1+x)^3} + \dots = -5 - 4x$
- k) $\frac{1}{2-x} + \frac{1}{(2-x)^2} + \frac{1}{(2-x)^3} + \dots = 2x + 1$
- l) $\frac{2}{x} + \frac{4}{x^2} + \frac{8}{x^3} + \frac{16}{x^4} + \dots = \frac{4x-3}{3x-4}$
- m) $2^x + 2^{x-1} + 2^{x-2} + 2^{x-3} + \dots = 2\sqrt{3 \times 2^x + 4}$
- n) $2^x + 4^x + 8^x + 16^x + \dots = 1$
- o) $1 + \sin^2 x + \sin^4 x + \sin^6 x + \dots = 2 \tan x$
- p) $2^x \sqrt{2^x} \sqrt[4]{2^x} \sqrt[8]{2^x} \sqrt[16]{2^x} \dots = 0.25$

Infinite Series Problems Solutions

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Infinite Series Problems Solutions:

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Sequences and Infinite Series, A Collection of Solved Problems Steven Tan, 2024-03-14 This book teaches by solving problems It is intended as a companion to standard textbooks for calculus students in learning sequences and infinite series The first part of each section presents the definitions and theorems without proofs necessary for problem solving and sometimes followed by comments or remarks These definitions and theorems correspond to those given in most calculus textbooks where all concepts and theorems are followed by explanations and proofs The second part contains problems and complete solutions solved in such a simple way that the students find no difficulty to understand The book contains over 450 solved problems They can be used as practicing study guides by students and as supplementary teaching sources by instructors Since the problems have very detailed solutions they are helpful for under prepared students

Calculus Problem Solutions with MATLAB® Dingyü Xue, 2020-03-23 This book focuses on solving practical problems in calculus with MATLAB Descriptions and sketching of functions and sequences are introduced first followed by the analytical solutions of limit differentiation integral and function approximation problems of univariate and multivariate functions Advanced topics such as numerical differentiations and integrals integral transforms as well as fractional calculus are also covered in the book

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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