

The Fundamental Theorem of Calculus

If f is continuous on $[a, b]$, then the function g is defined by

$$g(x) = \int_a^x f(t) dt ; a \leq x \leq b$$

is continuous on $[a, b]$ and differentiable on (a, b) , and $g'(x) = f(x)$.

Problems

a) For what values of p in the integral $\int_1^{\infty} \frac{1}{x^p} dx$ convergent?

Solution:

$$\begin{aligned} \text{If } p \neq 1, \quad \lim_{t \rightarrow \infty} \int_1^t \frac{1}{x^p} dx &= \lim_{t \rightarrow \infty} \int_1^t x^{-p} dx \\ &= \lim_{t \rightarrow \infty} \left[\frac{x^{-p+1}}{-p+1} \right]_1^t \\ &= \lim_{t \rightarrow \infty} \left[\frac{t^{-p+1}}{-p+1} - \frac{1}{-p+1} \right] = \lim_{t \rightarrow \infty} \frac{1}{p-1} \left[1 - \frac{1}{t^{p-1}} \right] \\ &= \begin{cases} \frac{1}{p-1} ; p > 1, \text{ converges} \\ \infty ; p \leq 1, \text{ diverges} \end{cases} \end{aligned}$$

Ssm Physics Calculus

Jeffrey W. Schnick



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Fundamentals of Physics David Halliday, Robert Resnick, Jearl Walker, 2010-03-15 This book arms engineers with the tools to apply key physics concepts in the field A number of the key figures in the new edition are revised to provide a more inviting and informative treatment The figures are broken into component parts with supporting commentary so that they can more readily see the key ideas Material from The Flying Circus is incorporated into the chapter opener puzzlers sample problems examples and end of chapter problems to make the subject more engaging Checkpoints enable them to check their understanding of a question with some reasoning based on the narrative or sample problem they just read Sample Problems also demonstrate how engineers can solve problems with reasoned solutions INCLUDES PARTS 1 4 PART 5 IN FUNDAMENTALS OF PHYSICS EXTENDED *Calculus-Based Physics I* Jeffrey W. Schnick, 2009-09-01 Calculus Based Physics is an introductory physics textbook designed for use in the two semester introductory physics course typically taken by science and engineering students BC Campus website [Fundamentals of Physics, Volume 1](#) David Halliday, Robert Resnick, Jearl Walker, 2021-10-05 Renowned for its interactive focus on conceptual understanding its superlative problem solving instruction and emphasis on reasoning skills the Fundamentals of Physics Volume 1 12th Edition is an industry leading resource in physics teaching With expansive insightful and accessible treatments of a wide variety of subjects including straight line motion measurement vectors and kinetic energy the book is an invaluable reference for physics educators and students In the first volume of this two volume set the authors discuss subjects including gravitation wave theory entropy and the Second Law of Thermodynamics and more **Fundamentals of Physics, Extended** David Halliday, Robert Resnick, Jearl Walker, 2021-10-12 Fundamentals of Physics 12th Edition guides students through the process of learning how to effectively read scientific material identify fundamental concepts reason through scientific questions and solve quantitative problems The 12th edition includes a renewed focus on several contemporary areas of research to help challenge students to recognize how scientific and engineering applications are fundamental to the world s clockwork A wide array of tools will support students active learning as they work through and engage in this course Fundamentals of Physics 12e is built to be a learning center with practice opportunities interactive challenges activities simulations and videos Practice and assessment questions are available with immediate feedback and detailed solutions to ensure that students understand the problem solving processes behind key concepts and understand their mistakes while working through problems [Fundamentals of Physics, Volume 2](#) David Halliday, Robert Resnick, Jearl Walker, 2021-10-05 Renowned for its interactive focus on conceptual understanding its superlative problem solving instruction and emphasis on reasoning skills the Fundamentals of Physics Volume 2 12th Edition is an industry leading resource in physics teaching With expansive insightful and accessible treatments of a wide variety of subjects including photons matter waves diffraction and relativity the book is an invaluable reference for physics educators and students In the second volume of this two volume set the

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