

Homework 1

Stanford University Math 21, Fall 2023
Due Wednesday, October 4, 2023, 9:00AM on Gradescope

Some problems may not be graded.

In Exercise 1-4, determine whether the following integrals converge or diverge. If it converges, evaluate the integral.

1. $\int_1^{\infty} \frac{dx}{x^{1.01}}$

2. $\int_0^{\infty} \frac{1}{x^2 + 1} dx$

3. $\int_0^{\infty} xe^{-2x} dx$

4. $\int_2^{\infty} \frac{1}{x\sqrt{\ln x}} dx$

In Exercise 5-8, use direct integration or the direct comparison test to determine whether the following integrals converge or diverge.

5. $\int_1^{\infty} \frac{dx}{x^3 + 1}$

6. $\int_0^{\infty} \frac{dx}{1 + e^x}$

7. $\int_2^{\infty} \frac{dx}{\sqrt{x-1}}$

8. $\int_{\pi}^{\infty} \frac{2 + \sin x}{x} dx$

9. Determine whether the improper integral $\int_{-\infty}^{\infty} \frac{x}{x^2 + 1} dx$ converges or diverges. Justify your answer.

10. Find the value of k such that $\int_1^{\infty} \left(\frac{5}{2x+6} - \frac{k}{x} \right) dx$ converges.

11. The gamma function has applications in several areas, such as quantum physics, astrophysics, and fluid dynamics. The gamma distribution, which is formulated in terms of the gamma function, is used in statistics to model a wide range of processes, such as the time between occurrences of earthquakes. The function itself is defined by

$$\Gamma(z) = \int_0^{\infty} t^{z-1} e^{-t} dt.$$

Calculate $\Gamma(1)$, $\Gamma(2)$, and $\Gamma(3)$.

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Mike Jess



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Table of Contents Homework 4 Stanford University

1. Understanding the eBook Homework 4 Stanford University
 - The Rise of Digital Reading Homework 4 Stanford University
 - Advantages of eBooks Over Traditional Books
2. Identifying Homework 4 Stanford University
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Homework 4 Stanford University
 - User-Friendly Interface
4. Exploring eBook Recommendations from Homework 4 Stanford University
 - Personalized Recommendations
 - Homework 4 Stanford University User Reviews and Ratings
 - Homework 4 Stanford University and Bestseller Lists
5. Accessing Homework 4 Stanford University Free and Paid eBooks
 - Homework 4 Stanford University Public Domain eBooks

- Homework 4 Stanford University eBook Subscription Services
- Homework 4 Stanford University Budget-Friendly Options
- 6. Navigating Homework 4 Stanford University eBook Formats
 - ePub, PDF, MOBI, and More
 - Homework 4 Stanford University Compatibility with Devices
 - Homework 4 Stanford University Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Homework 4 Stanford University
 - Highlighting and Note-Taking Homework 4 Stanford University
 - Interactive Elements Homework 4 Stanford University
- 8. Staying Engaged with Homework 4 Stanford University
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Homework 4 Stanford University
- 9. Balancing eBooks and Physical Books Homework 4 Stanford University
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Homework 4 Stanford University
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Homework 4 Stanford University
 - Setting Reading Goals Homework 4 Stanford University
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Homework 4 Stanford University
 - Fact-Checking eBook Content of Homework 4 Stanford University
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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