

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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