

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

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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Technical Reports of the Teacher Assessment Project, School of Education, Stanford University ,1987

Resources in education ,1982-03 Pathways to Proficiency, Second Edition Anthony R. Reibel,Mark Onuscheck,Eric Twadell,2025-02-11 This book provides a five phase process for implementing evidence based grading offering practical guidance for teachers and a clear road map for school leaders to improve student assessment grading and reporting The five phase process helps schools address some of the challenges they encounter with standards based and competency based grading models providing structured steps and solutions K 12 administrators can use this book to evaluate their system s effectiveness reflect on successes and challenges and continuously refine evidence based grading practices to enhance student learning outcomes K 12 administrators can use this book to Propose design and evaluate new grading practices based on student performance Lead and organize the implementation of evidence based grading policies and practices Establish clearer guidelines benchmarks and standards of student performance Navigate common pitfalls when transitioning to a new evidence based assessment model Enhance student performance through more consistent feedback and stronger mentorship Contents Introduction A Case for a Better Way to Grade Chapter 1 Preparation Core Commitments Chapter 2 Incubation Unexpected Connections Chapter 3 Insight Critical Discoveries Chapter 4 Evaluation Key Questions Chapter 5 Elaboration Essential Realizations Epilogue Appendix A Evidence Based Grading Gradebook Hacks Appendix B Other Evidence Based Grading Impacts Appendix C Converting a Unity of Study to Evidence Based Grading References and Resources Index Regulations, Part 530 United States. Employment Standards Administration. Wage and Hour Division,1972 *Scientific Evidence and Equal Protection of the Law* Angelo N Ancheta,2006-02-02 Scientific and social scientific evidence has informed judicial decisions and the making of constitutional law for decades but for much of U S history it has also served as a rhetorical device to justify inequality It is only in recent years that scientific and statistical research has helped redress discrimination but not without controversy Scientific Evidence and Equal Protection of the Law provides unique insights into the judicial process and scientific inquiry by examining major decisions of the U S Supreme Court civil rights advocacy and the nature of science itself Angelo Ancheta discusses leading equal protection cases such as Brown v Board of Education and recent litigation involving race related affirmative action gender inequality and discrimination based on sexual orientation He also examines less prominent but equally compelling cases including McCleskey v Kemp which involved statistical evidence that a state s death penalty was disproportionately used when victims were white and defendants were black and Castaneda v Partida which established key standards of evidence in addressing the exclusion of Latinos from grand jury service For each case Ancheta explores the tensions between scientific findings and constitutional values **Homework** Eunsook Hong,Roberta M. Milgram,2000-06-30 This work provides counsellors classroom teachers and parents with an understanding of homework as well as an introduction to homework methods and

materials in order to aid them in the challenge of helping children to do homework more effectively Embracing Writing
 Gary R. Hafer, 2014-09-29 Embracing WRITING Embracing Writing responds to the writing across the curriculum movement in a way that enables educators to integrate writing into their courses not just painlessly but productively instead of simply increasing their workloads with writing assignments that students dislike Embracing Writing elucidates the principles of academic writing and shows instructors how to integrate writing with course content blending them to enhance and deepen the higher education learning process Scholarly writing is a central part of the academic experience and when used effectively can be an outstanding pedagogical tool The creative approach in Embracing Writing will have you looking at writing in a whole new way Not only will your students appreciate the honest nurturing and fun writing assignments but your own writing will improve as well This is not a rulebook for writers but a guided approach to viewing writing and content as one indivisible whole Embracing Writing will help you Engage students in writing assignments that actually help them develop their writing ability Understand what makes good collegiate writing and how it can aid in content discovery Discover new pathways for your own writing so writing for publication and the classroom is enjoyable again Develop a writing pedagogy that doesn't detract from core course content delivery There often is a disconnect between administrative demands for in course writing and the inadequate training resources available to faculty members Because most of us aren't trained as writers we need a meaningful way to connect writing to our areas of expertise Embracing Writing provides that connection

The History Assignment Burr W. Phillips, 1926 **Homework as a Learning Experience** Mary Anne Doyle, Betsy S. Barber, 1990 *English Journal*, 1924 **Army and Navy Journal**, 1924 **The High School**, 1928 Journal of the American Medical Association, 1922 **Resources in Education**, 1984 **TQS News**, 1989 **General Program**
 American Association for the Advancement of Science. Pacific Division. Meeting, 1920 *Dangerous Assignments*, 2003
Education Summary, 1961 **A.I.B.S. Bulletin** American Institute of Biological Sciences, 1955 **Abstracts of Studies in Education at the Pennsylvania State College** Pennsylvania State College. School of Education, 1938

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