

## 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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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

**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

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**the British Museum Library** ,1966

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Tachdjian's Pediatric Orthopaedics:... by Herring MD, John A. ISBN-13. 978-1437715491. Edition. 5th. Publisher. Saunders.  
Publication date. December 19, 2013. Language. English. Dimensions. 9 x 4 x 12 inches. Print length. Tachdjian's Procedures  
in Pediatric Orthopaedics 3 brand new procedures not included in Tachdjian's Pediatric Orthopaedics, 5th Edition: Ganz  
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