

Calculus 1: Sample Questions, Final Exam, Solutions

1. Short answer. Put your answer in the blank. **NO PARTIAL CREDIT!**

(a) Evaluate $\int_{e^2}^{e^3} \frac{1}{x} dx$. Your answer should be in the form of an integer.

Solution: $\int_{e^2}^{e^3} \frac{1}{x} dx = \ln|x| \Big|_{e^2}^{e^3} = \ln|e^3| - \ln|e^2| = \ln(e^3) - \ln(e^2) = 3 - 2 = 1.$

(b) Evaluate $\int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \cos \theta d\theta$. Your answer should be in the form of an integer.

Solution: $\int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \cos \theta d\theta = \sin \theta \Big|_{-\frac{\pi}{2}}^{\frac{\pi}{2}} = \sin(\frac{\pi}{2}) - \sin(-\frac{\pi}{2}) = 1 - (-1) = 2.$

(c) Compute $e^{\ln 3 + \ln 2}$. Your answer should be in the form of an integer.

Solution: $e^{\ln 3 + \ln 2} = e^{\ln 3} e^{\ln 2} = 3 \cdot 2 = 6.$

(d) Compute $\int_5^5 \frac{x^3}{e^x + 9} dx$. Your answer should be in the form of an integer.

Solution: $\int_5^5 \frac{x^3}{e^x + 9} dx = 0$ since it is a definite integral over an interval of zero length. (This integral is probably impossible to do otherwise.)

(e) Evaluate $\int 3x^2 \sin(x^3 + 1) dx$. + C

Solution: Calculate for a substitution $u = x^3 + 1$, $du = 3x^2 dx$, and so

$$\int 3x^2 \sin(x^3 + 1) dx = \int \sin u du = -\cos u + C = -\cos(x^3 + 1) + C.$$

(f) Evaluate the derivative $D_x e^x$.

Solution: $e^x.$

Calculus Final Exam With Answers

SJ Ball



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MAA Notes, 1983 Classroom Assessment Techniques Thomas A. Angelo, Todd D. Zakrajsek, 2024-06-11 Classroom Assessment Techniques Formative Feedback Tools for College and University Teachers A practical research based handbook for using assessment to improve learning This completely revised and updated third edition of Classroom Assessment Techniques provides a research based engaging guide to assessing student learning where it matters most at course and classroom levels Informed by the latest international educational research and 30 years of classroom assessment practice this practical handbook is designed for postsecondary teachers from all disciplines faculty and academic developers and assessment professionals It offers field tested guidance tools and advice for planning designing and implementing formative assessment in face to face hybrid and fully online classrooms analyzing resulting data and using that data to improve student learning Classroom Assessment Techniques 3rd Edition is a practical clearly written handbook for busy professionals It contains a wealth of useful resources including 50 plus CATs classroom assessment techniques flexible formative assessment tools easily adaptable for use in a wide range of disciplines and contexts Case studies and examples illustrating how college and university faculty have applied these techniques to improve learning A new Course Learning Outcomes Inventory CLOI a self assessment tool for identifying and prioritizing the most relevant learning outcomes to assess The original Teaching Goals Inventory TGI which offers an alternate teaching focused approach to setting assessment priorities Multiple ways to quickly find the most appropriate tool CATs are indexed by discipline examples Bloom s Taxonomy Biggs and Tang s SOLO Taxonomy the CLOI and the TGI Brief chapters explaining what formative assessment is how it can improve student learning how to gather and provide formative feedback how to link classroom assessment with broader other assessment efforts and how to collaborate with students and colleagues Each CAT provides a brief self contained recipe including a description steps for implementation dos and don ts and relevant references

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Case Studies of Human Creativity appleton schneider, 2010-10-09 She nursed through her nose She spit up at and hit bugs And as infant Judy grew up ohmygod Exlax in the communion juice cooking Barbie a pet turtle discovering her gender etc Creativity Where does it come from How do the parents teachers even scientific professionals deal with it so that potentials aren't suppressed But also so those dealing with the ultra creatives aren't driven up the wall by the off the deep end things their kids do There's serious subject matter in this tome especially the final speeches But the plain preposterousness prior presented should be beneficial Laughter is not only good medicine but also great therapy

Calculus David A. Smith, Lawrence C. Moore, 1996-12

Accounting and Auditing Examinations Arco Publishing Company, 1949

Mathematical Modelling C Haines, P Galbraith, W Blum, S Khan, 2007-08-01 This book continues the ICTMA tradition of influencing teaching and learning in the application of mathematical modelling Each chapter shows how real life problems can be discussed during university lectures in school classrooms and industrial research International experts contribute their knowledge and experience by providing analysis insight and comment whilst tackling large and complex problems by applying mathematical modelling This book covers the proceedings from the Twelfth International Conference on the Teaching of Mathematical Modelling and Applications Covers the proceedings from the Twelfth International Conference on the Teaching of Mathematical Modelling and Applications Continues the ICTMA tradition of influencing teaching and learning in the application of mathematical modelling Shows how real life problems can be discussed during university lectures in school classrooms and industrial research

Practice for the Army Tests Arco Publishing Company, 1948

Education Department Reports University of the State of New York, 1998 Vols 1 8 31 contain Judicial decisions of the Commissioner of Education and formal opinions of counsel with Decisions of Motion Picture Commissioner and Decisions of Textbook Commission v 9 30 contain Judicial decisions of the Commissioner of Education

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