

**PHYSICS 115
FINAL EXAM, 2014**

Due in my mailbox in ISB 232 by 5 pm. on Tuesday, June 10.

This must be your own work. **No collaboration is allowed.** You may use your notes, books, and the web.

For the C/C++/Fortran/Java questions you must write a program in C, C++, Java or Fortran, but not use Mathematica. (Of course, nothing stops you from *checking* your answer with Mathematica.) You must provide a listing of the program, the output, and any relevant explanation. Group all parts of a question together.

For the Mathematica questions you must provide a listing of the commands you used, the output, and any relevant explanation. Put all your answers to the Mathematica part in one notebook.

C/C++/Fortran/Java part

1. Consider the following data:

x	y	error in y
1.1075	5.1507	0.0513
2.0198	7.0209	0.0511
2.8948	8.7185	0.0487
3.8009	10.5185	0.0736
4.8840	12.7217	0.0621
6.1507	15.3488	0.1496
7.0411	17.1824	0.0853
8.0592	19.1125	0.1110
8.8211	20.7822	0.1253
10.0766	23.5099	0.1433

(Download this data from <http://young.physics.ucsc.edu/115/homework/qa1fitdata.>)

- Determine the best straight-line fit to this data using the least-squares method. You need to determine the error bars on the slope and intercept as well as the best-fit values of these parameters.
- Determine the number of degrees of freedom, the value of χ^2 , and hence the value of χ^2 per degree of freedom.

2. Evaluate

$$I = \int_0^2 \frac{1}{1+x^2} dx$$

numerically to 6 decimal places.

Note: You must explain how you estimated that the desired accuracy had been obtained.

3. Find the positive root of the equation

$$x = \sin 3x,$$

to three decimal places.

Note: You must explain how you estimated that the desired accuracy had been obtained.

4. Consider the differential equation

$$\frac{dy}{dx} = \sqrt{y+x^2}.$$

Find the value of $y(2)$ correct to 4 decimal places given that $y(0) = 1$.

Note: You must explain how you estimated that the desired accuracy had been obtained.

Physic Exam 2014 Department Grade Paper

Peterson's



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Critical Pedagogies in Physical Education, Physical Activity and Health Julie Stirrup, Oliver Hooper, 2021-07-29 Critical Pedagogies in Physical Education Physical Activity and Health explores critical pedagogy and critical work around the body health and physical activity within physical education By examining the complex relationships between policies and practice and how these are experienced by young people it elucidates the need for critical pedagogy in contemporary times With contributions from leading international experts in health and physical education and underpinned by a critical socio cultural approach the book examines how health and physical education are situated across various international contexts and the influence of policy and curriculum It explores how health is constructed by students and teachers within these contexts as well as how wider spaces and places beyond formal schooling influence learning around the body health and physical activity Finally it considers what progressive pedagogies might look like within health and physical education Chapters utilise empirical work within the field to explore various topics of relevance to critical pedagogy drawing on theoretical insights while providing practical applications and concluding with reflection points to encourage readers to consider the relevance for their own contexts Designed to support pedagogical study in a range of contexts this book will be of particular interest to undergraduate and postgraduate students teachers and researchers with an interest in physical education physical activity and health and the role they play in young people s lives

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movement approach skill theme approach based on findings that have been shown to increase children's learning and teacher effectiveness

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papers and expert guidance for General Studies and CSAT Paper I II *Assessment in Counseling* Danica G. Hays, 2017-05-18 The latest edition of this perennial bestseller instructs and updates students and clinicians on the basic principles of psychological assessment and measurement recent changes in assessment procedures and the most widely used tests in counseling practice today Dr Danica Hays guides counselors in the appropriate selection interpretation and communication of assessment results This edition covers more than 100 assessment instruments used to evaluate substance abuse and other mental health disorders intelligence academic aptitude and achievement career and life planning personal interests and values assessment of personality and interpersonal relationships In addition a new chapter on future trends in assessment discusses the changing cultural landscape globalization and technology Perfect for introductory classes this text provides students and instructors with practical tools such as bolded key terminology chapter pretests summaries and review questions self development and reflection activities class and field activities diverse client case examples practitioner perspectives illustrating assessment in action and resources for further reading PowerPoint slides a test bank a sample syllabus and chapter outlines to facilitate teaching are available to instructors by request to ACA Requests for digital versions from the ACA can be found on wiley com To request print copies please visit the ACA website <https://imis.counseling.org/store> Reproduction requests for material from books published by ACA should be directed to permissions@counseling.org

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The End of Public Schools David W. Hursh, 2015-10-16 The End of Public Schools analyzes the effect of foundations corporations and non governmental organizations on the rise of neoliberal principles in public education By first contextualizing the privatization of education within the context of a larger educational crisis and with particular emphasis on the Gates Foundation and influential state and national politicians it describes how specific policies that limit public control are advanced across all levels Informed by a thorough understanding of issues such as standardized testing teacher tenure and charter schools David Hursh provides a political and pedagogical critique of the current school reform movement as well details about the increasing resistance efforts on the part of parents teachers and the general public

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