



AP* Calculus Review Session, Part 2

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Moderator Bio



Mike Houston

**T³ National Instructor
Riverside High School
Ellwood City, PA**

Mike is in his twelfth year of teaching high school mathematics in Ellwood City, PA. While participating in a TI-Navigator™ Fast-Track in 2007, he learned how technology can effectively cultivate students' wide range of learning styles. During this time, Mike has served as a T³ National Instructor and a contributing author for MathForward™.

Panelists' Bios



Vicki Carter

T³ National Instructor

Timmonsville, SC

Vicki has been teaching high school math for 40 years and currently serves as the math department chairperson at West Florence High School. She is co-chair of the AP* Calculus Development Committee and serves as a Question Leader at the *AP Calculus reading. Vicki has served on TI-Nspire™ authoring teams and has presented at many international, national, and regional conferences in the areas of technology, calculus, and statistics.



Steve Kokoska

T³ National Instructor

Bloomsburg, PA

Steve received his undergraduate degree from Boston College and his MS and Ph.D. from The Univ. of New Hampshire. Steve just completed his term as Chief Reader for the AP Calculus Reading. He has written several graphing calculator manuals to accompany statistics and precalculus, and has given numerous presentations on graphing calculators and AP Calculus at College Board workshops, the T³ International Conference, AP National Conference, NCTM, and to area high school students and teachers.

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Panelists' Bio



Tom Dick

**T³ Senior Math Advisor
Oregon State Univ.**

Corvallis, OR

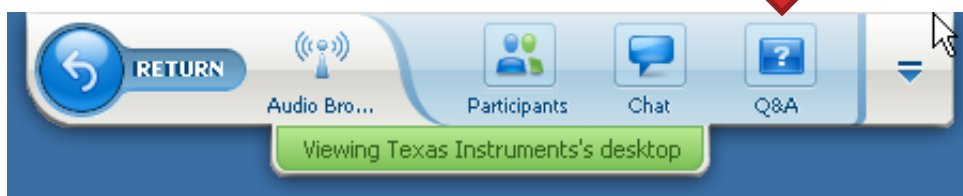
Tom Dick is a Senior Mathematics Advisor for Texas Instruments and is also Professor and former Chair of the Mathematics Department of Oregon State University. He has served on the Editorial Panels for the *Journal for Research in Mathematics Education* and the *Mathematics Teacher Educator*. He remains active in the College Board's Advanced Placement Calculus Program and has previously served as Chair of the AP Calculus Test Development Committee.

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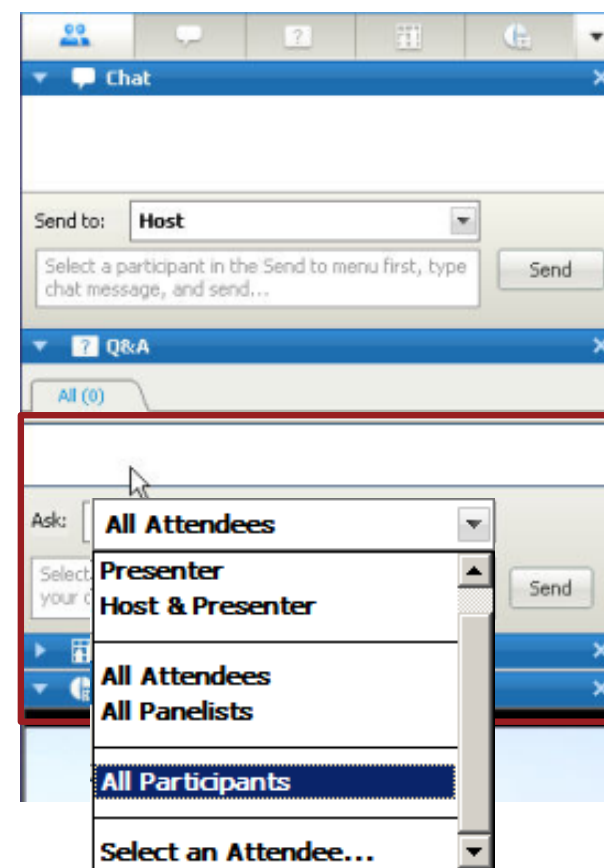
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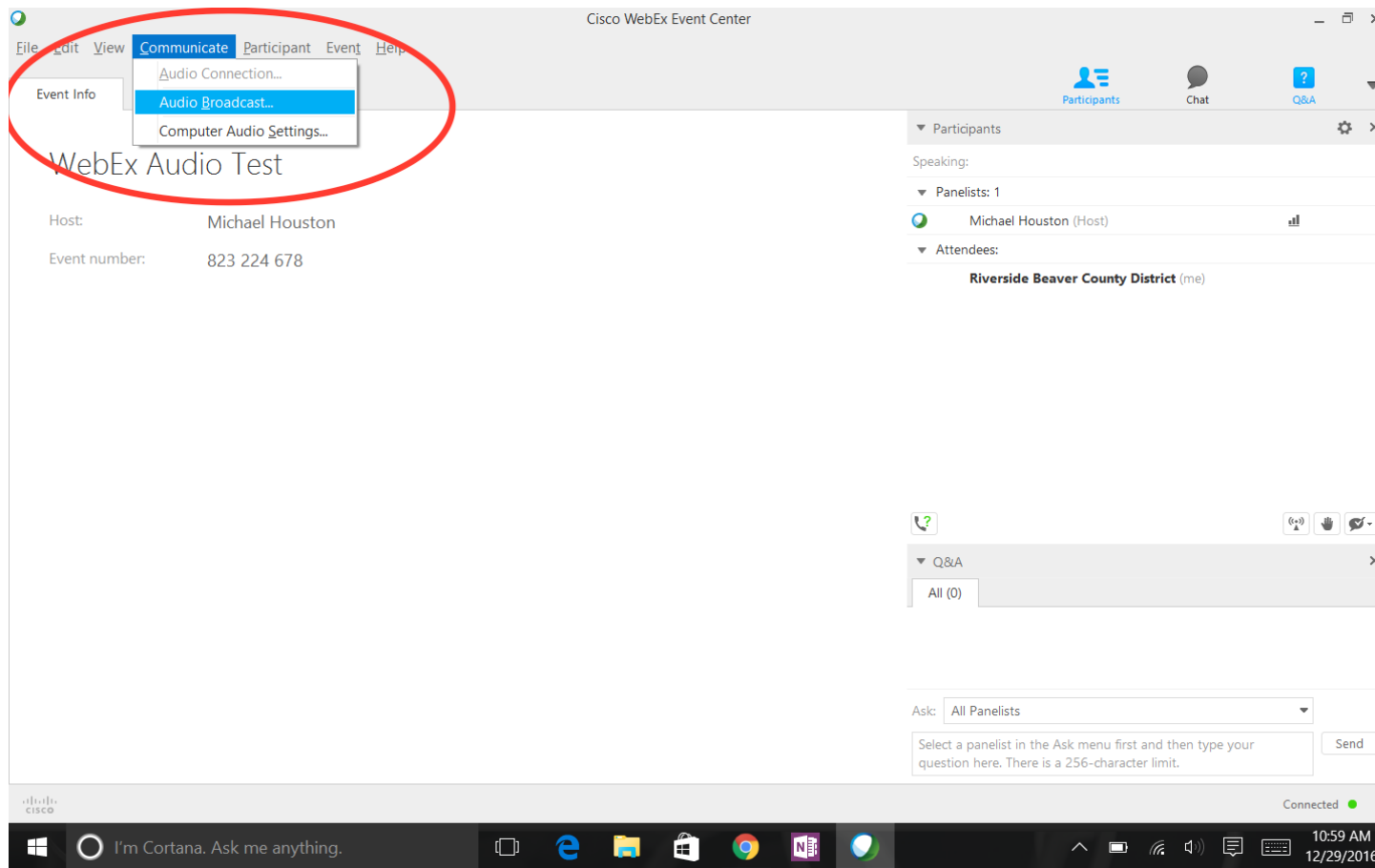
Questions directed to:

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If your audio becomes disconnected, follow these instructions to reconnect it.

1. In the menu at the top, choose communicate and choose audio broadcast.



Agenda

- Welcome & introductions
- Format of the exam
- Overview of new topics
- Fundamental Theorem of Calculus and Multiple Representations
- BC free response scoring problem example
- Online Resources
- *Webinar Giveaway: complimentary registration for a T³ Summer Professional Development Workshop*

Expected Outcomes:

- **Familiarize** yourself with the format and instructions for the AP* exam
- **Understand** different ways the Fundamental Theorem of Calculus is tested
- **Examine** how a free response question is typically scored

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Exam Information

Students take either the AP Calculus AB Exam or the AP Calculus BC Exam. The exams, which are identical in format, consist of a multiple-choice section and a free-response section, as shown below.

Section	Part	Graphing Calculator	Number of Questions	Time	Percentage of Total Exam Score
Section I: Multiple Choice	Part A	Not permitted	30	60 minutes	50%
	Part B	Required	15	45 minutes	
	TOTAL		45	1 hour, 45 minutes	
Section II: Free Response	Part A	Required	2	30 minutes	50%
	Part B	Not permitted	4	60 minutes	
	TOTAL		6	1 hour, 30 minutes	

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Calculator Use on the Exams

Both the multiple-choice and free-response sections of the AP Calculus Exams include problems that require the use of a graphing calculator. A graphing calculator appropriate for use on the exams is expected to have the built-in capability to do the following:

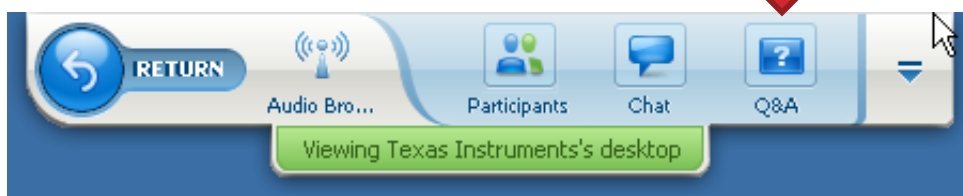
1. Plot the graph of a function within an arbitrary viewing window
2. Find the zeros of functions (solve equations numerically)
3. Numerically calculate the derivative of a function
4. Numerically calculate the value of a definite integral

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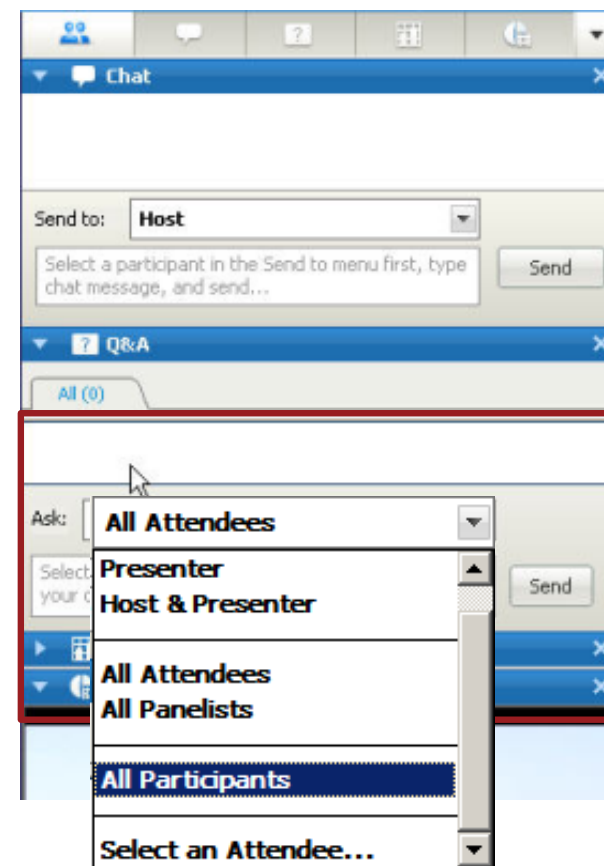
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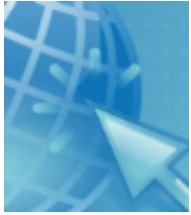
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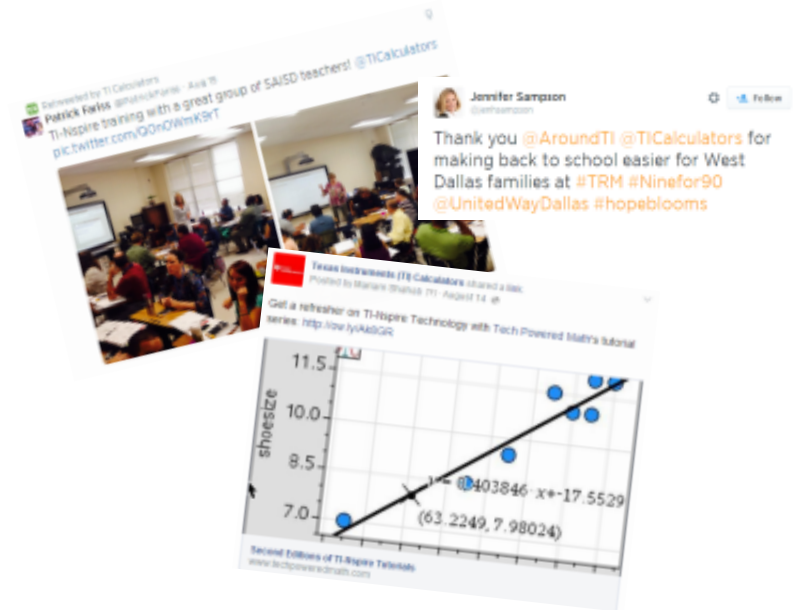
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Post-webinar Follow-up

Find useful resources, answers to your questions & access to friendly, knowledgeable customer support and technical reps.

General Questions:

1-800-TI-CARES

Technical Questions:

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For a consultation on an upcoming purchase of TI Technology or professional development, please contact us at:

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Thank you!

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The screenshot shows the generated certificate. It has a red header with the Texas Instruments logo and 'Education Technology'. Below the header, the text 'Math Nspired Resource Center: Calculus' is displayed. The main body of the certificate is white with a large, faint watermark of a person's head and shoulders. The text 'CERTIFICATE OF ATTENDANCE' is centered at the top of the white area. Below it, the text 'presented to' is followed by a line for 'Your Name'. At the bottom, there are two fields: 'Number of Hours' with the value '1' and 'Date' with the value 'March 8, 2011'. The footer of the certificate includes the Texas Instruments logo and the text 'Your Passion. Our Technology. Student Success.'.