



Using TI Technology to Explore Applications of Integrals

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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



Pat Flynn

T³ Regional Instructor

Overland Park, KS

Pat has been teaching mathematics for 23 years. He is currently teaching AP* Calculus BC at Olathe East High School in Olathe, KS. Pat is a 2013 Presidential Award winner for Excellence in Mathematics and Science Teaching. He has served on TI-Nspire™ authoring teams and was a writer for the We All Use Math Every Day program in conjunction with the television show NUMB3RS. Pat has presented at many international, national, and regional conferences in the areas of technology, calculus, and geometry.



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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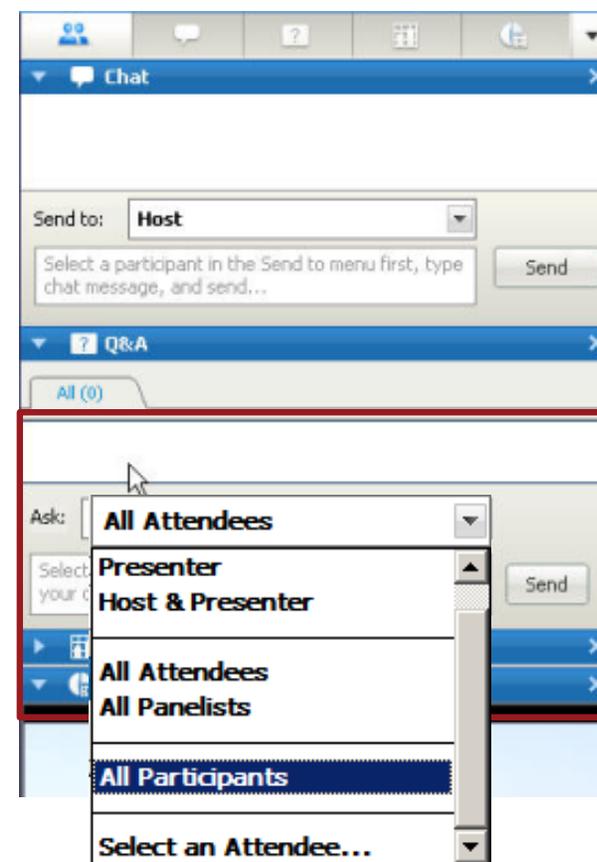
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*Note: Use the **Chat** panel for general communication*



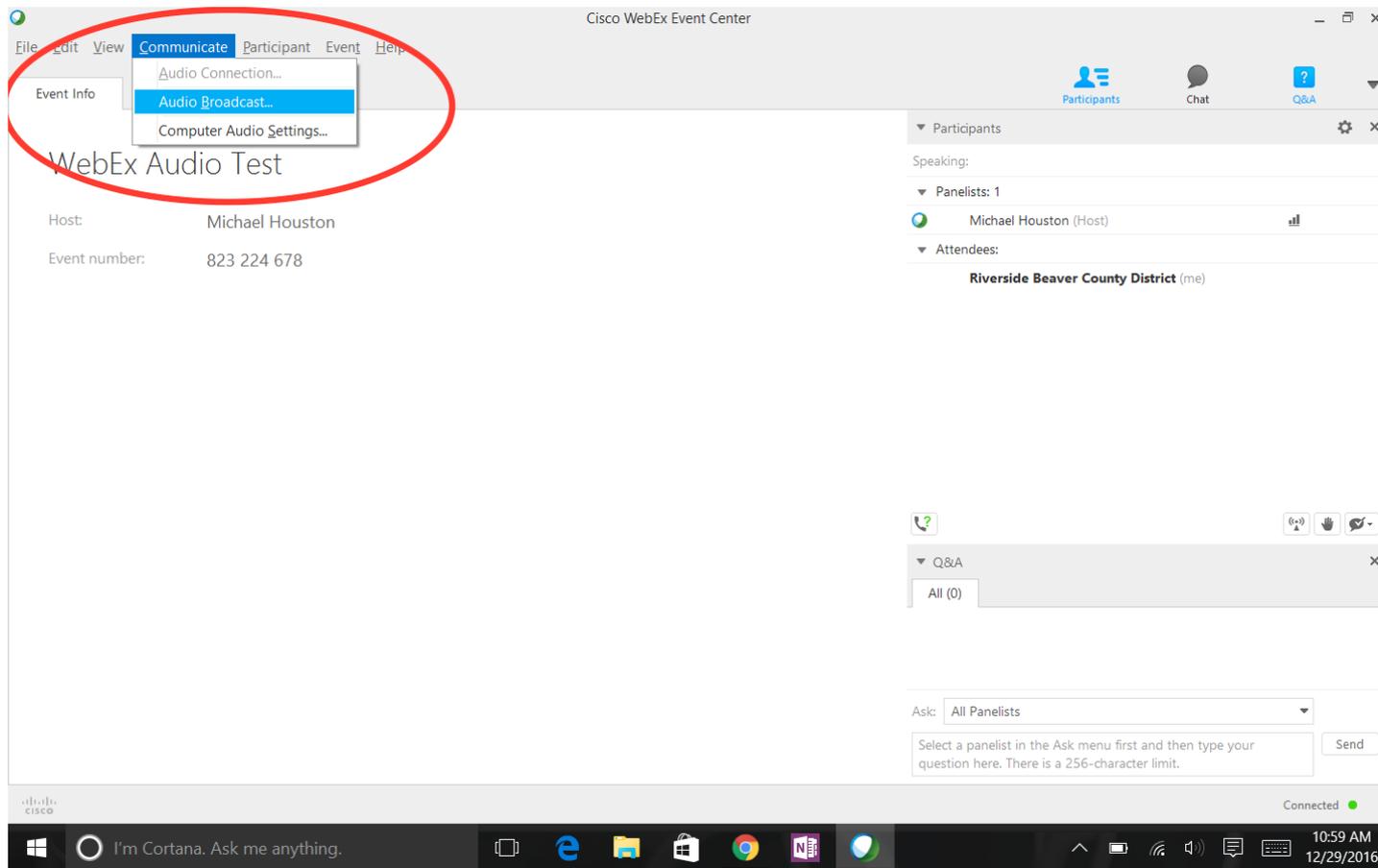
Questions directed to:

- All Attendees** excludes Moderator and Panelists
- All Participants** includes everyone in the meeting

Audio

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



Agenda

- Welcome & introductions
- Accumulation functions
 - Visualizing accumulation (2008 exam #9)
 - Evaluating integrals using TI technology (2016 practice exam #77)
- Rate in / Rate out problems
- Slope Fields
 - Producing slope fields using TI technology
- Differential Equations
 - Euler's Method (BC topic only)
- Online Resources
- *Webinar Giveaway: complimentary registration for the T³ International Conference*

Expected Outcomes:

- **Examine** how to use technology to solve problems on the AP Calculus exam
- **Visualize** solids of revolution
- **Analyze** student work to illustrate common mistakes and understand grading standards
- **Exploring Average Value of a Function** graphically and numerically

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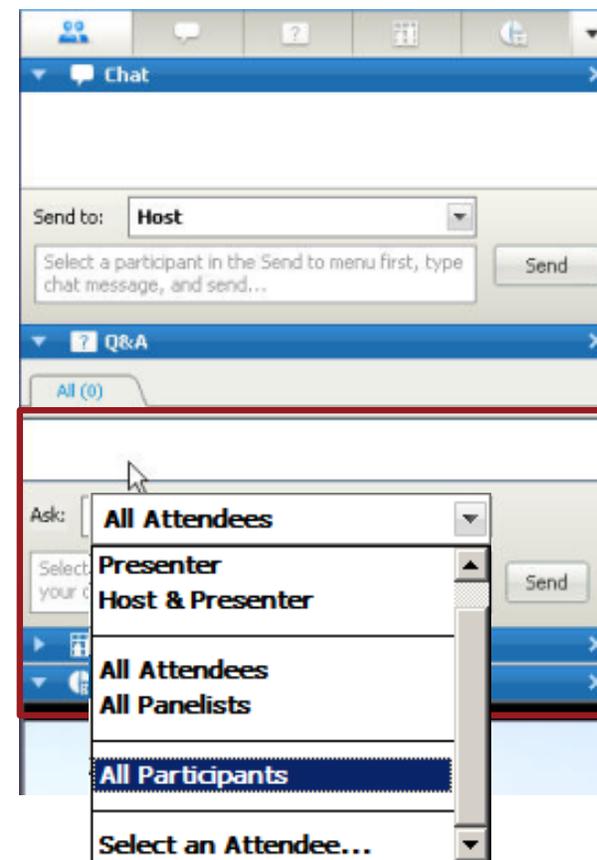
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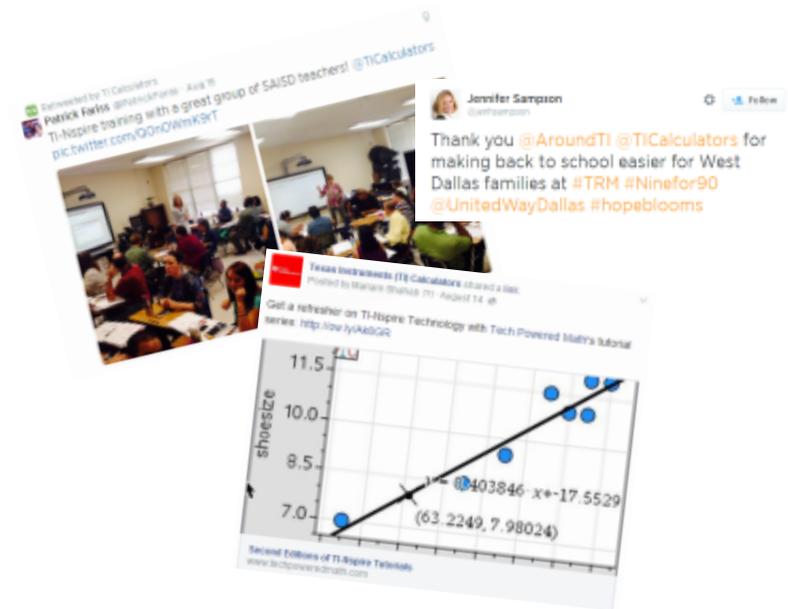
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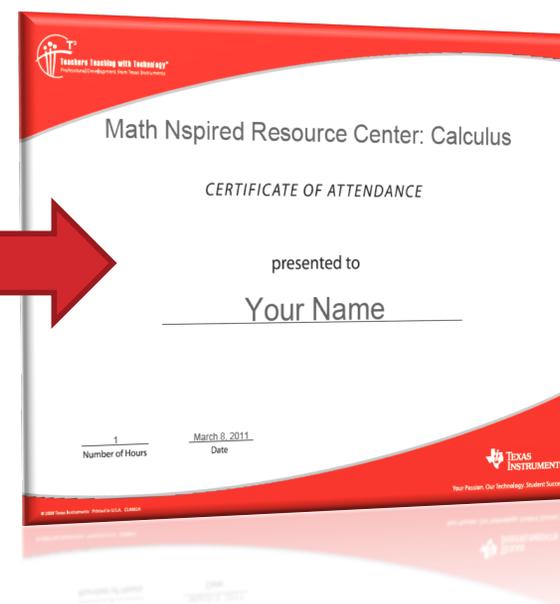
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The screenshot shows a web page for generating a certificate. At the top, it says 'TEXAS INSTRUMENTS Education Technology'. Below that, the heading is 'Generate Your Certificate · 获取证书 · Generar Certificado de Asistencia'. The page is divided into two main sections. The left section, titled 'What's New and Tried & True with TI-Nspire(tm) Technology', contains text about the software's features and is presented by Todd Morslein and Tom Reardon. The right section is a form with a text input field for 'Your Name · 您的姓名 · Su Nombre:' and a red 'Go · 获取证书 · Ir' button. Below the button, there are instructions in English, Chinese, and Spanish regarding the 90-second PDF generation process and the need for Adobe Reader.



The screenshot shows a generated certificate with a red header and footer. The header contains the Texas Instruments logo and 'Teachers Teaching with Technology'. The main text reads 'Math Nspired Resource Center: Calculus' followed by 'CERTIFICATE OF ATTENDANCE'. Below this, it says 'presented to' followed by a line for 'Your Name'. At the bottom, there are fields for 'Number of Hours' (with the value '1') and 'Date' (with the value 'March 8, 2011'). The footer includes the Texas Instruments logo and the tagline 'The Power. Our Technology. Student Success.™'.

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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:

972-917-8324

ti-cares@ti.com



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 image shows a screenshot of the Texas Instruments Education Technology website. The top navigation bar includes the Texas Instruments logo and the text "Education Technology". Below this, the main heading reads "Generate Your Certificate · 获取证书 · Generar Certificado de Asistencia".

The main content area is divided into two columns. The left column contains information about TI-Nspire technology, including a "What's New and Tried & True with TI-Nspire(tm) Technology" section. The right column features a form for generating a certificate, with a "Your Name" field and a "Go" button. A large red arrow points from the "Go" button to the resulting certificate.

The resulting certificate is titled "Math Nspired Resource Center: Calculus" and "CERTIFICATE OF ATTENDANCE". It is presented to "Your Name". The certificate also includes fields for "Number of Hours" (set to 1) and "Date" (set to March 8, 2011). The Texas Instruments logo and tagline "Your Passion. Our Technology. Student Success." are visible at the bottom of the certificate.

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