



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

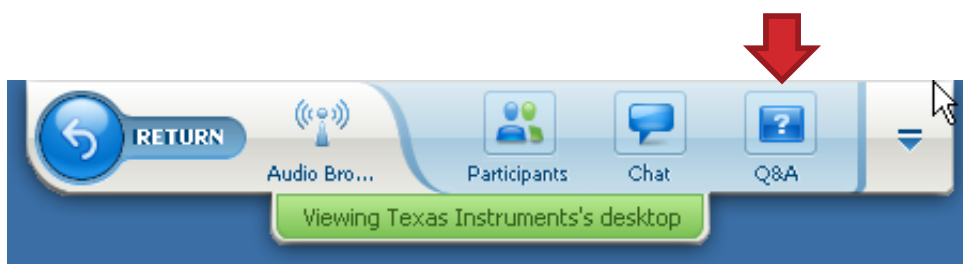
Tom Dick is a Senior Mathematics Advisor for Texas Instruments and is also Professor and former Chair of the Mathematics Department of Oregon State University. He has served on the Editorial Panels for the *Journal for Research in Mathematics Education* and the *Mathematics Teacher Educator*. He remains 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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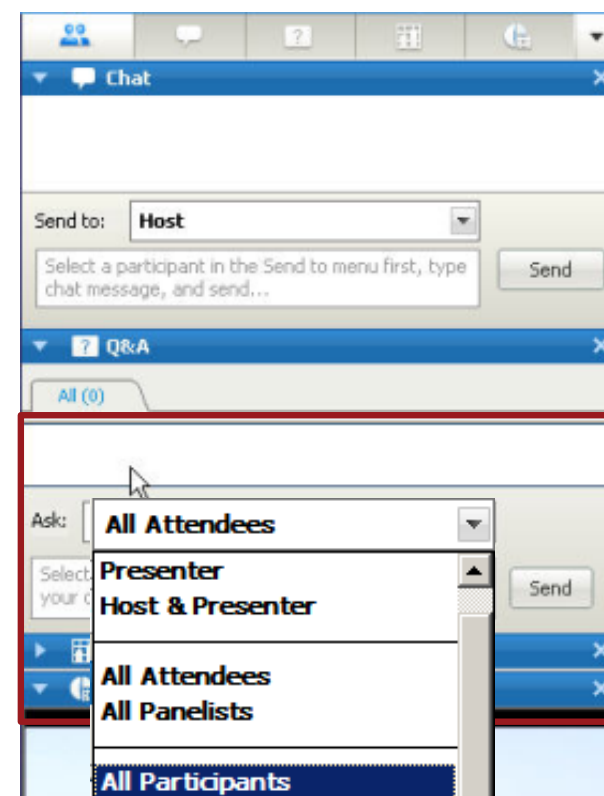
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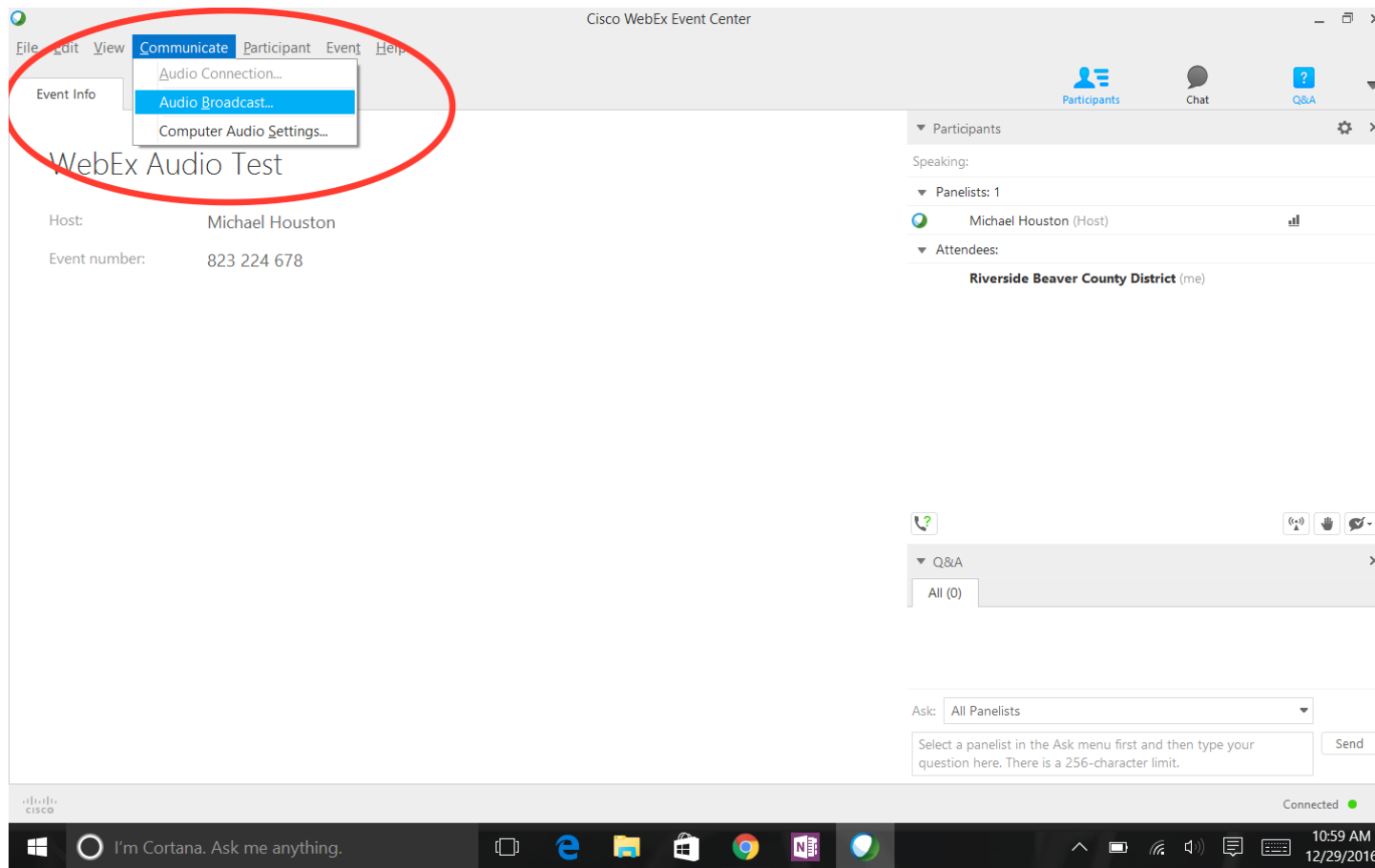
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- All Participants** includes everyone in the meeting

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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:

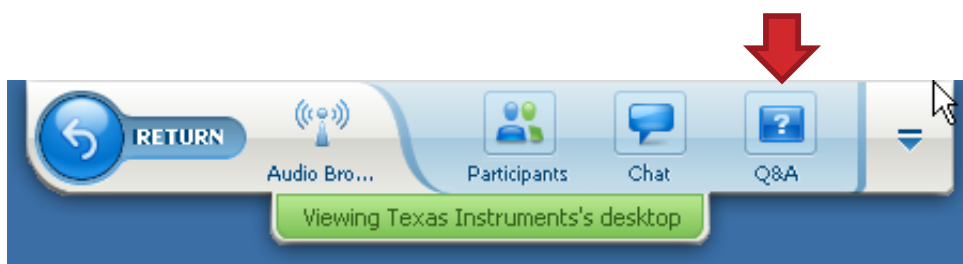
- **Examine** how to use technology to solve problems on the AP Calculus exam
- **Visualize** solids of revolution
- **Analyze** student work to illustrate common mistakes and understand grading standards
- **Exploring** Average Value of a Function graphically and numerically

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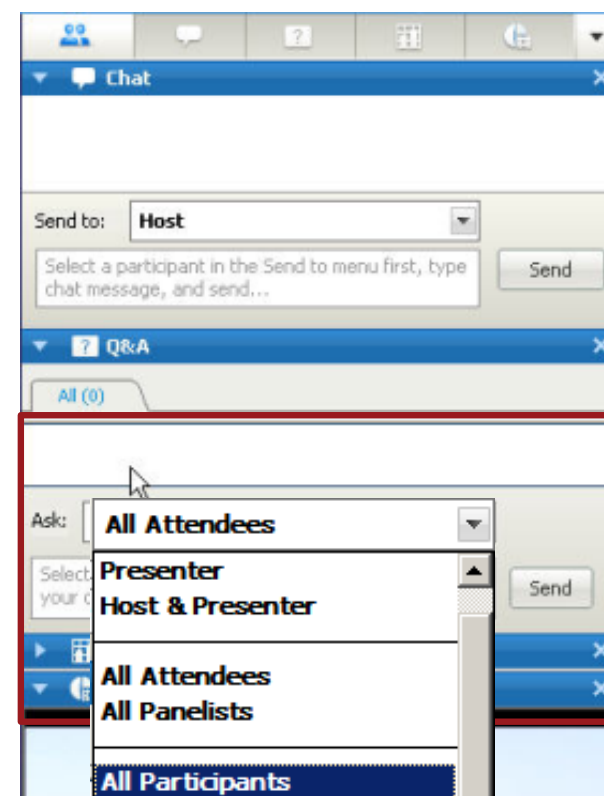
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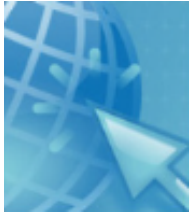
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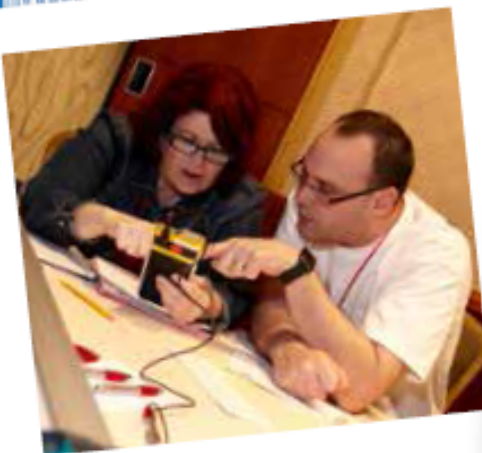
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Find useful resources, answers to your questions & access to friendly, knowledgeable customer support and technical reps.

General 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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