



# Professional Development Webinars

## Algebra Through Calculus: Piecewise Functions and Graphs

Fall 2019

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# Moderator Bio



**Mike Houston**

**T<sup>3</sup> National Instructor**

**Ellwood City, PA**

Mike is in his fifteenth 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 T<sup>3</sup> National Instructor and a contributing author for MathForward™.

# Panelists' Bios



**Vicki Carter**

**T<sup>3</sup> National Instructor**

**Timmonsville, SC**

Vicki has been teaching high school math for 42 years and currently serves as the math department chairperson at West Florence High School. She is a former co-chair of the AP\* Calculus Development Committee and served as an Exam Leader at the AP Calculus reading in the summer of 2018. She received the T<sup>3</sup> Leadership Award in 2015. Vicki has served on TI-Nspire™ authoring teams and has presented at many national, state, and local conferences.



**Anthony Record**

**T<sup>3</sup> Regional Instructor**

**Indianapolis, IN**

Tony has been a mathematics teacher at Avon High School, a western suburb of Indianapolis, IN for the past 30 years. For the past 12 years, Tony has primarily taught AP\* Calculus. In addition to being a T<sup>3</sup> Regional Instructor, Tony is an active consultant with both the National Math & Science Initiative as well as the College Board having trained teachers and worked with students in 27 states. In his spare time, he loves to play guitar and is active with central Indiana's Hendricks Civic Theatre.

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# Agenda

- Welcome & introductions
- MPAC's and connections to piecewise defined functions
- Piecewise defined functions in Algebra through Precalculus
- Continuity and Differentiability of Piecewise defined functions
- Piecewise defined Accumulation function
- Webinar drawing

# Expected Outcomes

- Identify the AP\* Calculus Mathematical Practices, as presented in the Course and Exam Description, which can be used to support the vertical alignment of Algebra – Calculus as related to the use of piecewise defined functions.
- Use technology to graph and explore piecewise defined functions.

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