Cornell University
K-12 Education and Outreach, Mathematics Department

MATH 5080 – Mathematics for Secondary School Teachers
November 11, 2017   ◆   9:00 am – 2:30 pm (lunch provided)   ◆   406 Malott Hall

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8:45 – 9:00 am   **Bagels & Juice (provided)**

9:00 – 9:15 am   **Introductions**

9:20 – 10:35 am   **Tablecloth Math***
Beverly Henderson West (Cornell University, Mathematics)

Balthasar van der Pol was a Dutch mathematician, physicist, and electrical engineer who, in the early 20th century, became a famous name in differential equations and also brought to life, in the setting of a damask tablecloth pattern, the subject of Gaussian primes in the complex plane. In this presentation we will discuss some history of mathematics, explore the van der Pol differential equation, and generate and plot Gaussian primes in the complex plane.

*This work is based on a presentation by Prof. John Bukowski, chair of the Mathematics Department at Juniata College in Pennsylvania.

10:45 am – 12 pm   **TI Tips for Building Math Confidence & Regents Success**
Dana Morse (Texas Instruments)

We will cover topics in middle grades through high school mathematics that students typically struggle with and share how to properly integrate technology to assist students. I will share strategies to build students' confidence in their skills to help them believe they can achieve success in mathematics.

12:00 – 12:30 pm   **Lunch (provided)**

12:30 – 2:30 pm   **TI Tips for Building Math Confidence & Regents Success**
Dana Morse (Texas Instruments)
(Continuation of morning session.)

RSVP by Thursday, November 2, 2017
Registration (required): https://www.math.cornell.edu/m/Community/5080#form

Questions? **Mary Ann Huntley** (huntley@math.cornell.edu)