



A Dynamic Tool For Mathematics Teaching And Learning

Presentation & Discussion: The uses of GeoGebra as an interactive technology for Mathematics teaching, learning and discovery

Presenter: Joe Pastore, CUNY Queens College Mathematics Department

Date & Time: Monday, November 23, 2015 (12 noon – 1pm)

Location: Kiely Hall 258

Abstract: There are many software programs and internet websites or applets that are used as interactive tools for practicing Mathematics. Some of these technologies are easy to use yet limited in capability. Other technologies such as Maple or Mathematica possess great capabilities. However, without a license they are costly, and often require the user to pay money to attend workshops in order to gain proficiency.

GeoGebra is an open-source software with amazing capabilities, allowing users to work in several different areas of Mathematics such as Algebra and Geometry (hence the name GeoGebra), Probability, Statistics, and many others. Furthermore, GeoGebra is much more than a software package....it is an entire community built on collaboration! GeoGebra offers its software to non-commercial users for free, and provides users the opportunity to share their work online as web-applets, making dynamic files accessible for use and modification to all.

During this talk, the following will be addressed in as much detail as time permits:

- Basic and relatively advanced features of GeoGebra and the authoring software
- The GeoGebra.org website, web-applets and the larger collaborative community
- Using GeoGebra as a tool for teaching and learning, particularly in Pre-Calculus & Calculus courses
- Opportunities to learn how to use and explore GeoGebra

The presentation will be followed by a Q & A discussion

Note: Joe Pastore is a full-time lecturer in the Queens College Mathematics Department, and is the founder of the newly established GeoGebra Institute of Queens, New York. All GeoGebra institutes are non-profit organizations. The GeoGebra Institute of Queens' main objective is to provide professional development opportunities and workshops for Math instructors, and to provide learning opportunities for Math students at all levels.