


A Precalculus Instructor's Use of an Applet as a Didactic Object: A Mechanism for Conveying Coherent Meanings to Students

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Digital technologies like graphing software and applets are commonly integrated into math curricula to support student learning and performance. While researchers suggest that instructors' use of applets and animations as didactic objects (Thompson, 2002) can help students develop coherent mathematical understandings, examples of such usage are scarce in math education literature. In this presentation, I share an example of a precalculus instructor's design and use of an applet as a didactic object for supporting students' construction of the output of the sine function as a quantitative operation. This example highlights the benefits of using applets as didactic objects in teaching and how instructors' conceptualizations of mathematical ideas influence their teaching goals, explanations, and ultimately the meanings that students have the opportunity to construct.

**Tues.,
October 22
3:45 pm**

PS 307

Zoom: Meeting ID 893 9607 9478

For colloquium guests, refreshments begin at 3:15 pm in PS 307