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Evelyn Sander* (esander@gmu.edu), Dept of Math Sci MS-3F2, 4400 University Dr., Fairfax, VA 22030. 3D-technological methods for teaching 2D-graphing to a blind student: a case study. Preliminary report.

In this talk, I will discuss a case study of using the technology of 3D printing to teach a blind student in a Precalculus course. I will describe the prior background of the student, discuss some of the pedagogical techniques used by the instructor, show the tools that we have developed, and give some concrete examples of how we used these tools. The talk will include a detailed description of the use of both 3D-printed plots and a 3Doodler pen. It will conclude with a short discussion of some possible avenues for further development of 3D printed tactile graphs and related teaching materials.

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