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Ellen M Parker* (parker@depauw.edu), Department of Mathematics, DePauw University, Greencastle, IN 46135. *Using Mathematica in the Real Analysis Classroom.*

The computer algebra system Mathematica can help students build an important bridge from their intuitive understanding of calculus concepts to the formalism of real analysis. In this short talk, I will illustrate ways faculty can facilitate this "bridge-building" as students learn the concepts of continuity and uniform convergence. More generally, I will examine the idea that technology plays distinct and different roles in various upper- level axiomatic courses. (Received September 30, 2000)