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Douglas B Meade* (meade@math.sc.edu), Department of Mathematics, University of South Carolina, Columbia, SC 29208, Philip B Yasskin (yasskin@math.tamu.edu), Department of Mathematics, Texas A&M University, College Station, TX 77843-3368, and Mika Seppala (mika.seppala@webalt.net), Department of Mathematics and Statistics, University of Helsinki, P.O. Box 68, FIN-00014, Helsinki, Finland. Multilingual Maplets for WebALT Calculus.

WebALT Calculus is a online course in single-variable calculus. To increase the usefulness of the WebALT Calculus materials, they are available in several languages. Maplets for Calculus is a collection of over 70 Maple applets on major topics in precalculus, limits, derivatives, integrals, differential equations, sequences, series, and polar coordinates.

The latest additions to the Maplets for Calculus collection have extended the coverage of topics to include working with absolute values, writing ϵ - δ proofs for limits, practicing properties of limits, understanding the Fundamental Theorem of Calculus, and working with telescoping series. To be optimally useable by students taking the online WebALT Calculus, these maplets are available in multiple languages, including English, Spanish, Dutch, and Finnish.

In this presentation we will demonstrate WebALT Calculus and the multilingual maplets and discuss the process and tools used to create the multilingual materials. (Received September 26, 2006)