

962-05-224

Akalu Tefera* (teferaa@gvsu.edu), Akalu Tefera, Department of Mathematics and Statistics, Grand Valley State University, Allendale, MI 49401. *MultInt, a Maple Package for Multiple Integration by the WZ Method.*

We will describe a MAPLE implementation, MultInt, of the continuous version of the WZ method. We will also give various examples of how this package can be used to systematically generate proofs of identities (or recurrences) which involve multiple integrals of proper-hyperexponential functions. (Received August 29, 2000)