1046-Z1-561   **Kevin E. Charlwood*** (`kevin.charlwood@washburn.edu`), 7212 SW 25th Street, Topeka, KS 66614-4769. *Partial Fraction Decomposition Extensions.* Preliminary report.

We consider extensions on partial fraction decompositions beyond the coverage in standard Calculus texts. We consider a short cut for finding the unknown coefficients in a partial fraction decomposition, the use of complex numbers for irreducible quadratic factors, an extension to rational trigonometric functions, and an extension to decompositions for multivariate rational functions. (Received September 08, 2008)