1006-14-138 **David A. Weinberg** (`weinberg@math.ttu.edu`), Texas Tech University, Department of Mathematics and Statistics, Lubbock, TX 79409-1042, and **Nicholas J. Willis*** (`nicholas.j.willis@ttu.edu`), Texas Tech University, Department of Mathematics and Statistics, Lubbock, TX 79409-1042. *Singular Points of Real Sextic Curves.* Preliminary report.

The classification of individual types of singular points for real sextic curves will be discussed. The classification is based on taking just enough of the Puiseux expansion to separate the "branches". The computer algebra program Maple is extensively used to do the symbolic computations in the proof. (Received February 11, 2005)