

Title: Oscillation of even-order nonlinear differential equations with sublinear and superlinear neutral terms

Author(s): John R. Graef, Said R. Grace and Ercan Tunç

This paper is concerned with the oscillatory behavior of solutions to a class of evenorder nonlinear differential equations with sublinear and superlinear neutral terms. The results are obtained by a comparison with first-order delay differential equations whose oscillatory characters are known as well as by an integral criteria. Examples are provided to illustrate the main results.

Address:

John R. Graef Department of Mathematics University of Tennessee at Chattanooga Chattanooga, TN 37403 USA

Address: Said R. Grace Department of Engineering Mathematics Faculty of Engineering Cairo University Orman, Giza 12221 Egypt Address: Ercan Tunç Department of Mathematics Faculty of Arts and Sciences Gaziosmanpasa University 60240, Tokat

Turkey