1011-26-9   **A. M. Fink*** (`fink@math.iastate.edu`), Mathematics Department, Iowa State University, Ames, IA 50011. *The defect in Jensen's Inequality.*

Gruss's Inequality which estimates the defect in Chebyshev's inequality has found many other applications. We consider the defect in Jensen's inequality will also lead to some nice results. We give two theorems which do just that. (Received April 18, 2005)