1014-11-643 **Peter Borwein*** (`pborwein@sfu.ca`). *The Mahler Measure of Polynomials with Odd Coefficients.*

We resolve an old conjecture of Schinzel and Zassenhaus for the class of polynomials with no cyclotomic factors whose coefficients are all odd.

More generally, we solve the problems of Lehmer for irreducible polynomials in the above class by showing that the Mahler measure of such polynomials is bounded away from 1. (Received September 22, 2005)