ERRATUM TO “ON THE LOCATION OF THE ZEROS OF THE DERIVATIVE OF A POLYNOMIAL”

J. BRIAN CONREY AND L. A. RUBEL

(Communicated by William J. Davis)

Karl Dilcher has pointed out to the authors a mistake in the proof of Theorem 1 on line 6 of page 39. With \( n = 1 \) and \( c_1 = \frac{1}{2} \), it is not true that \( g(x) > 0 \) for \( 0 \leq x \leq 1 \). In fact, \( g(2/5) = -19/1250 \). Dilcher has shown that the correct constant is \( c_1 = \sqrt{3/2} \left[ (16\sqrt{2} + 13)^{1/3} - (16\sqrt{2} - 13)^{1/3} - 1 \right]^{1/2} \approx 0.4947091 \). With this emended value of \( c_1 \), Theorem 1 is true.

REFERENCES