CORRIGENDUM TO A NOTE ON ENTIRE FUNCTIONS

S. K. SINGH and V. SREENIVASALU

(Volume 30, Pages 71 to 75.)

In view of the obvious mistake in page 72, line 21, Theorem 1 should read as follows :

Theorem 1 : *Let* $f(z) = \sum_{n=0}^{\infty} a_n z^n$ (*all* a_n*'s real*) *be an entire function. Also, let* $\delta > 0$ *be a constant and*

$$\chi(z) = (f(z))^{\delta_1/2} = \sum_{n=0}^{\infty} e_n z^n$$

where δ_1 *is the first even integer greater than* δ. *Then*

$$R_n = \frac{a_{n-1}}{a_n} \quad \text{and} \quad R_n' = \frac{e_{n-1}}{e_n}$$

are both strictly increasing and further if

$$\limsup_{n \to \infty} \frac{a_n}{a_{n-1}\, a_{n+1}} = 1 ,$$

then

$$\lim_{r \to \infty} \frac{M_\delta(r,f)}{M(r,f)} = 0$$

where

$$M_\delta(r,f) = \left[\frac{1}{2\pi} \int_0^2 |f(re^{i\vartheta})|^\delta \, d\vartheta \right]^{1/\delta} .$$

The following changes are necessary in the proof of this Theorem :

Page 71 : Omit lines 5 - 7 from below and read instead

Proof : Now, $f(z) = a_0 + \varphi(z)$, where

$$\varphi(z) = \sum_{n=1}^{\infty} \frac{z^n}{R_1 \dots R_n} .$$

Page 72 : Line 1 should read as

Now

Omit lines 18-27.

Page 73 : Line 17 should read as

Case 1. Suppose $\delta \geqq 2$.

Replace φ_1 by φ and δ_1 by δ in lines 19, 21, 23, 24 and 25.

Page 74 : Replace φ_1 by φ in lines 2, 4, 13.

Line 9 should read as

Let ..., we have, since R_n' is strictly increasing

Line 12 should read as

Hence ..., we have, noting that $M_{\delta}(r, \varphi) = M_{\delta_1}(r, \varphi)$,

Omit lines 18-20.

Replace throughout (1.4), (1.5), ..., (1.9) by (1.2), (1.3), ..., (1.7).

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