

Corrigendum

On the maximum terms of an entire function and its derivatives

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Lemma 2 in the above paper should be corrected as follows:

$$(*) \quad v_j(r) \leq r \frac{\mu_{j+1}(r)}{\mu_j(r)} \leq v_{j+1}(r) + 1, \quad j=0, 1, 2, \dots$$

This requires a corresponding correction in relation (4), p. 310, and hence also a correction in the proof of my Theorem 1, p. 309, as follows:

Lemma 2. in the correct form (*) yields:

$$r^j \frac{\mu_j(r)}{\mu_0(r)} \begin{cases} \leq [v_j(r)+j][v_j(r)+j-1]\dots[v_j(r)+1], \\ \geq v_0(r)[v_0(r)-1]\dots[v_0(r)-j+1], \end{cases}$$

i. e.

$$r^j \left[\frac{\mu_j(r)}{\mu_0(r)} \right] \begin{cases} \leq F(r) \sim \{v_j(r)\}^j \\ \geq G(r) \sim \{v_0(r)\}^j, \end{cases} \quad r \rightarrow \infty.$$

After this, the proof of my *Theorem 1* can be completed by using my Lemma 1 where of course $v_j(r)$ in the formulae for ϱ and λ is a misprint for $\log v_j(r)$.

Taking into account the correct form (*) of my Lemma 2, my Theorem 2 will read thus:

For $r > r_0$,

$$r \frac{\mu_1(r)}{\mu(r)} > \frac{\log \mu(r)}{\log r},$$

$$r^j \frac{\mu_j(r)}{\mu(r)} > \frac{\log \mu(r)}{\log r} \left[\frac{\log \mu(r)}{\log r} - 1 \right] \dots \left[\frac{\log \mu(r)}{\log r} - j + 1 \right], \quad j \geq 2.$$

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