A CORRECTION TO THE PAPER "ON EFFECTIVE SETS OF POINTS IN RELATION TO INTEGRAL FUNCTIONS"

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An additional hypothesis is necessary for the truth of Lemma 3. In the relation $g'(z_n) = P_n'(z_n)Q_n(z_n)$, in order that Lemma 3 may be true it is necessary to prove that $\lim_{n \to \infty} (\log |P_n'(z_n)|/|z_n|^\sigma) = 0$. Under the conditions stated in the Lemma we can prove only that $\limsup_{n \to \infty} (\log |P_n'(z_n)|/|z_n|^\sigma) \leq 0$. If we assume also that $\liminf_{n \to \infty} (\log \mu_n/|z_n|^\sigma) \geq 0$, where $\mu_n = \min_{n \neq r} |z_n - z_r|$, it will follow that $\liminf_{n \to \infty} (\log |P_n'(z_n)|/|z_n|^\sigma) \geq 0$, hence Lemma 3 will hold. This additional condition is obviously satisfied in the particular case worked out in Lemma 4 since the circles are non-overlapping after a certain stage and each circle contains only one zero. If $\mu_n$ is sufficiently small, Lemma 3 will cease to be true, hence one of the doubtful points raised in §3.6 is answered in the negative.

* Received by the editors December 6, 1937. Cf. these Transactions, vol. 42 (1937), pp. 358–365.

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