CORRECTIONS AND A REMARK TO: A SINGULAR INTEGRAL WHOSE KERNEL INVOLVES A BESSEL FUNCTION

By Lee Lorch and Peter Szego

1. **Misprints.** In formula (1), p. 407, insert ν^{λ} as a factor immediately preceding the integral sign. In formula (10.1), p. 414, insert ν as a factor immediately preceding the integral sign.

2. **Bibliographic error.** On p. 410, line 21, the result that the difference of any two successive positive zeros of $J_\nu(t)$, $\nu > \frac{1}{2}$, is less than $j_{\nu 2} - j_{\nu 1}$ is incorrectly ascribed to M. B. Porter, whereas it is actually due to C. Sturm (*Mémoire sur les équations differentielles du second ordre*, Journal de Mathématiques Pures et Appliquées, lè Serie, vol. 1 (1836), pp. 106–186, at pp. 173–175). Our incorrect reference was derived from G. N. Watson, *Treatise on the Theory of Bessel Functions*, Second Edition, Cambridge, 1944, p. 517. We became aware of this slip through footnote 2 in E. Hille, *Über die Nullstellen der Hermitschen Polynome*, Jahresbericht der Deutschen Mathematiker Vereinigung, vol. 44, 1934, pp. 162–165.

3. **A Remark.** Theorem 2, unlike Theorem 1, remains valid if the requirement that $f(t)$ be of bounded variation in $[1, A]$, $A > 1$, is replaced by the weaker assumption that $f(1+)$ exist. The only use made of the assumption of bounded variation in the proof of Theorem 2 (pp. 412–413) is to infer the existence of $f(1+)$, and so no real change in that proof is required.

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