

ERRATA TO "TABLE OF THE ZEROS OF THE LEGENDRE POLYNOMIALS OF ORDER 1-16 AND THE WEIGHT COEFFICIENTS FOR GAUSS' MECHANICAL QUADRATURE FORMULA"¹

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The following errors should be noted.

Page 740. The statement "where ξ is a point in the interval (p, q) and k_n is the normalizing factor for $P_n(x)$, which is equal to

$$\left(\frac{2n+1}{q-p}\right)^{1/2}."$$

should be replaced by "where ξ is a point in the interval (p, q) and k_n is

$$(2nC_n)(2n+1)^{1/2}/(q-p)^{n+1/2}."$$

The bottom of the same page should contain the following:

"*Note.* On this and the previous page, the subscripts of x_n and a_n are allowed to range from 1 to n . In the table, however, it seemed more convenient to change the notation slightly, and permit both positive and negative subscripts. Thus for $n=3$, the roots are x_{-1} , x_0 , x_1 . Roots with negative subscripts can be obtained by symmetry from those tabulated. Similarly for the entries a_n ."

Page 741. The value of x_2 should read 0.519096129206812.

Page 742. The value of x_1 should read $x_1=0.125233408511469$.

The value of x_2 should read $x_2=0.367831498998180$.

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¹ Bull. Amer. Math. Soc. vol. 48 (1942) pp. 739-743.

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E. J. Gumbel, *On the plotting of statistical observations*, abstract 49-9-238.

p. 698, line 5 of the abstract. Instead of "The correction Δ for the rank is unlimited and possesses a mode, Δ increases" read "If the variate is unlimited and possesses a single mode the correction Δ for the rank increases."