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ERRATA: INEQUALITIES ASSOCIATING HYPERGEOMETRIC FUNCTIONS WITH PLANER HARMONIC MAPPINGS

OM P. AHUJA AND H. SILVERMAN

Department of Mathematics
Kent State University
Burton, Ohio 44021-9500.
EMail: oahuja@kent.edu

Department of Mathematics
University of Charleston
Charleston, South Carolina 29424
EMail: silvermanh@cofc.edu

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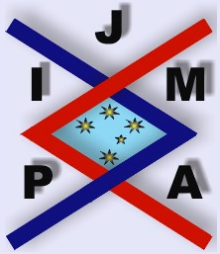

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Abstract

The purpose of this note is to give some corrections for our published article in [1].

2000 Mathematics Subject Classification: 30C55, 31A05, 33C90.
Key words: Errata, Planar harmonic mappings, hypergeometric functions.

These errata give the following correct statements for the corresponding statements on the cited page of our published article [1].

Page 2

$$\phi_2(z) := F(a_2, b_2; c_2; z) - 1 = \sum_{n=1}^{\infty} \frac{(a_2)_n (b_2)_n}{(c_2)_n (1)_n} z^n, \qquad |a_2 b_2| < |c_2| .$$

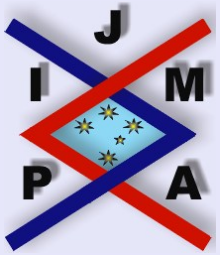
Page 8 (After Remark 2.10: Line 4)

$$\psi_2(z) := \varphi(a_2, c_2; z) - 1 = \sum_{n=1}^{\infty} \frac{(a_2)_n}{(c_2)_n} z^n, \qquad |a_2| < |c_2| ,$$

Page 8 (After Remark 2.10: Line 9)

$$\psi_1(1) = F(a_1, 1; c_1; 1) = \frac{c_1 - 1}{c_1 - a_1 - 1} \qquad \text{and}$$

$$\psi_2(1) = F(a_2, 1; c_2; 1) - 1 = \frac{a_2}{c_2 - a_2 - 1}.$$



ERRATA: Inequalities Associating Hypergeometric Functions with Planer Harmonic Mappings

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Page 8 (Theorem 2.2′: Last line)

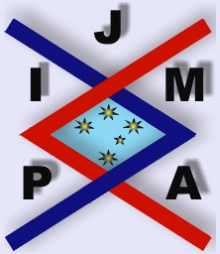
$$\frac{(c_1-1)(c_1-2)}{(c_1-a_1-1)(c_1-a_1-2)}+\frac{a_2^2}{(c_2-a_2-1)(c_2-a_2-2)}\leq 2.$$

Page 9 (Theorem 2.4′: Line 3)

$$\frac{c_1-1}{(c_1-a_1-1)}\left[1+\frac{3a_1}{c_1-a_1-2}+\frac{2a_2}{(c_1-a_1-3)_2}\right]+\frac{a_2}{(c_2-a_2-1)}\left[\frac{a_2}{c_2-a_2-2}+\frac{2(a_2)_2}{(c_2-a_2-3)_2}\right]\leq 2.$$

Page 9 (Theorem 2.7′: Line 3)

$$\frac{a_1}{c_1-a_1-1}+\frac{c_2}{c_2-a_2-1}\leq 1.$$



References

[1] OM P. AHUJA AND H. SILVERMAN, Inequalities associating hypergeometric functions with planer harmonic mappings, *J. Inequal. Pure Appl. Math.*, **5**(4) (2004), Art. 99. [ONLINE: http://jipam.vu.edu.au/article.php?sid=454].