

COMPLEMENTARINESS WITH RESPECT TO THE LOGARITHMIC MEAN

IULIA COSTIN AND SILVIA TOADER

Abstract. We want to determine the complementary of a weighted Gini mean with respect to the logarithmic mean which is again a weighted Gini mean.

Mathematics subject classification (2000): 26E60.

Keywords and phrases: Gini mean, logarithmic mean, complementary mean.

REFERENCES

- [1] J. M. BORWEIN, P. B. BORWEIN, *Pi and the AGM - a Study in Analytic Number Theory and Computational Complexity*, John Wiley & Sons, New York, 1987.
- [2] I. COSTIN, G. TOADER, *A weighted Gini mean. Proceedings of the International Symposium Specialization, Integration and Development, Section Quantitative Economics*, Babeş-Bolyai University Cluj-Napoca, Romania, 137–142, 2003.
- [3] I. COSTIN, G. TOADER, *Generalized inverses of Gini means*, *Autom. Comput. Appl. Math.*, **15** (2006), 111–116.
- [4] Z. DARÓCZY, ZS. PÁLES, *Gauss-composition of means and the solution of the Matkowski-Sutô problem*, *Publ. Math. Debrecen*, **61**, 1-2 (2002), 157–218.
- [5] H. W. GOULD, *Coefficient identities for powers of Taylor and Dirichlet series*, *Amer. Math. Monthly*, **81** (1974), 3–14.
- [6] J. JARCZYK, J. MATKOWSKI, *Invariance in the class of weighted quasi-arithmetic means*, *Ann. Polon. Math.*, **88**, 1 (2006), 39–51.
- [7] D. H. LEHMER, *On the compounding of certain means*, *J. Math. Anal. Appl.*, **36** (1971), 183–200.
- [8] J. MATKOWSKI, *On invariant generalized Beckenbach-Gini means*, *Functional Equations - Results and Advances* (Z. Daróczy and Zs. Páles, eds.), *Advances in Mathematics*, vol. **3**, Kluwer Acad. Publ., Dordrecht, 2002, 219–230.
- [9] G. TOADER, I. COSTIN, *On invariance in the family of Stolarsky means*, *Autom. Comput. Appl. Math.*, **16**, 2 (2007), 7–24.
- [10] G. TOADER, SILVIA TOADER, *Greek Means and the Arithmetic-Geometric Mean*, *RGMA Monographs*, Victoria University, 2005. (On-line: <http://rgmia.vu.edu.au/monographs>).
- [11] S. TOADER, G. TOADER, *Generalized complementaries of Greek means*, *Pure Math. Appl.*, **15**, 2-3(2004), 335–342.
- [12] S. TOADER, G. TOADER, *Complementaries of Greek means with respect to Gini means*, *Int. J. Appl. Math. Stat.*, **11**, 7 (2007), 187–192.