

## GENERALIZATIONS OF SOME PROPERTIES OF CONVEX FUNCTIONS

VLAD CIOBOTARIU-BOER

*Abstract.* In this paper, generalizations of some properties of convex functions proved in [4, 5] are given.

*Mathematics subject classification (2000):* 26A51.

*Keywords and phrases:* Convex functions, Hlawka's inequality, Popoviciu's inequality.

### REFERENCES

- [1] D. ADAMOVIĆ, *Généralisation d'une identité de Hlawka et l'inégalité correspondante*, Mat. Vesnik, **1**(16) (1964), 39–43.
- [2] J. V. BASTON, *On some Hlawka-type inequalities of Burkill*, J. London Math. Soc., **12**(2) (1976), 402–404.
- [3] J. C. BURKILL, *The concavity of discrepancies in inequalities of the means and of Hölder*, J. London Math. Soc., **7**(2) (1974), 617–626.
- [4] V. CIOBOTARIU-BOER, *On a property of convex functions*, General Mathematics, Vol. 15, No. 1 (2007), 111–126.
- [5] V. CIOBOTARIU-BOER, *Some inequalities for convex functions*, Octagon Mathematical Magazine, **15**(1) (2007), 113–122.
- [6] D. Z. ĐOKOVIĆ, *Generalizations of Hlawka's inequality*, Glasnik Mat.-Fiz. i Astr., **18**(3) (1963), 169–175.
- [7] A. LUPAȘ, *Asupra unei inegalități pentru funcții convexe*, Gazeta Matematică – Perfecționare metodică și metodologică în matematică și informatică, **3**(1-2) (1982), 49–52.
- [8] T. POPOVICIU, *Sur quelques propriétés des fonctions d'une ou de deux variables réelles*, Mathematica (Cluj), **8** (1934), 1–85.
- [9] T. POPOVICIU, *Sur l'approximation des fonctions convexes d'ordre supérieur*, Mathematica (Cluj), **10** (1934), 49–54.
- [10] T. POPOVICIU, *Sur certaines inégalités qui caractérisent les fonctions convexes*, Analele Științifice Univ. "Al. I. Cuza" Iași, Secția Mat., **11** (1965), 155–164.
- [11] K. TODA, *A method of approximation of convex functions*, Tôhoku Math. J., **42** (1936), 311–317.
- [12] P. M. VASIĆ AND LJ. R. STANKOVIĆ, *Some inequalities for convex functions*, Math. Balcanica, **6**(44) (1976), 281–288.