On the generalized Coşniţă-Turtoiu inequalities

VASILE BERINDE

ABSTRACT.

The aim of this note is twofold: first, to give a simple proof to a simplified version of a result of Y.-D. Wu and M. Bencze [*The refinement and generalization of a double Coşniţă-Turtoiu inequality with one parameter*, Creat. Math. Inf. **19** (2010), No. 1, 96–100] and, secondly, to extend this one parameter Coşniţă-Turtoiu inequality to a two parameters inequality.

REFERENCES

- [1] Bencze, M., Wu, H.-H. and Wu S.-H., An equivalent form of fundamental triangle inequality and its applications, Octogon Math. Magazine, 16 (2008), No. 1, 36–41
- [2] Chu, X.-G., Research Information Cxx-205, Communication in Studies of Inequalities 6 (1998), 67-68 (in Chinese)
- [3] Coșniță, C. and Turtoiu, F., Culegere de probleme de algebră, Editura Tehnică, București, 1961
- [4] Coșniță, C. and Turtoiu, F., Probleme de algebră, Editura Tehnică, București, 1972
- [5] Mitrinović, D. S., Pečarić, J. E. and Volenec, V., Recent Advances in Geometric Inequalities, Acad. Publ., Dordrecht, Boston, London, 1989.
- [6] Tian, Z.-P., An inequality relating to the altitudes, The Monthly Journal of High School Mathematics 26 (2003), pp. 42 (in Chinese)
- [7] Wu, Y.-D. and Bencze, M., The refinement and generalization of a double Coşniţă-Turtoiu inequality with one parameter, Creat. Math. Inf. 19 (2010), No. 1, 96–100
- [8] Zhang, X.-M., The relation between $\prod \cos \frac{A}{2}$ and $\prod \sin \frac{A}{2}$ and its applications, Communication in Studies of Inequalities 5 (1998), 14–17 (in Chinese)

NORTH UNIVERSITY OF BAIA MARE
DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
VICTORIEI 76, 430122 BAIA MARE
E-mail address: vberinde@ubm.ro