

The refinement and generalization of the double Cosnita-Turtoiu inequality with one parameter

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ABSTRACT.

In this short note, we give the refinement and generalization of the double Cosnita-Turtoiu inequality with one parameter by Gerretsen's inequality, Euler's inequality and an equivalent form of fundamental triangle inequality.

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REFERENCES

- [1] Bencze, M., Wu, H.-H. and Wu, S.-H., *An equivalent form of fundamental triangle inequality and its application*, Octagon Mathematical Magazine **16** (2008), No. 1, 36- 41
- [2] Bottema, O., Djordević, R. Ž., Janić, R. R., Mitrinović, D. S. and Vasić, P. M., *Geometric Inequalities*, Wolters-Noordhoff Publishing, Groningen, The Netherlands, 1969
- [3] Chu, X.-G., *Research information Cxx-205*, Communication in Studies of Ineq. **6** (1998), 67-68 (in Chinese)
- [4] Mitrinović, D. S., Pečarić, J. E. and Volenec, V., *Recent Advances in Geometric Inequalities*, Acad. Publ., Dordrecht, Boston, London, 1989
- [5] Tian, Z.-P., *An inequality relating to the altitudes*, The Monthly Journal of High School Math. **26** (2003), 42 (in Chinese)
- [6] 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)

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