GEOMETRIC INEQUALITIES FOR A SIMPLEX

Yang Shiguo

Abstract. In this paper, we study the problem of geometric inequalities for an n-simplex. Some new geometric inequalities for simplex are established. As the special case, some known inequalities are gotten.

REFERENCES

[1] MITRINOVIĆ, D. S., PEČARIĆ, J. E., VOLENEC, V., *Recent Advances in Geometric Inequalities*, Kluwer Acad. Publ., Dordrecht, Boston, London, (1989), 434–547.
[2] GERASIMOV, J. I., *Problem*, Mat. Škole, **4** (1971), 86.
[3] GERBER, L., *The ortocentric simplex as an extreme simplex*, Pacific. J. Math., **56** (1975), 97–111.
[4] KLAMKIN, M. S., *Problem*, SIAM. Rev., **27(4)** (1985), 576.
[5] ZHANG, J. ZH., YANG, L., *A class of geometric inequalities concerning the masspoint system*, J. China Univ. Sci. Technol., **11(2)** (1981), 1–8.

© ELEMENT, Zagreb
Paper MIA-08-67

Mathematical Inequalities & Applications
www.ele-math.com
mia@ele-math.com