

## INEQUALITIES FOR A SIMPLEX AND ANY POINT

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Abstract. By applying an analytic inequality and the polar moment of inertia inequality in  $E^n$ , we establish some inequalities for the volume, facet areas and distances between any point of  $E^n$  and vertices of an n-simplex

Mathematics subject classification (2000): 52A40, 52A20.

Key words and phrases: Simplex, moment of inertia, mass-point system, volume inequality.

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