

1014-52-26

Mostafa Ghandehari* (gandeha@cse.uta.edu), Computer Science and Engineering, Univ. Of Texas at Arlington, Box 19015, Arlington, TX 76019, and **Fred Kashefi** (fkashefi@uta.edu), 501 West First Street, Engineering Building, Room 220, Box 19138, Arlington, TX 76019. *An application of parallel-axis theorem to geometric inequalities*. Preliminary report.

The parallel-axis theorem for moment of inertia is used to find an equality for the sum of squares of distances of points on a circle from an interior point. Related inequalities are given and generalization to the Minkowski plane is discussed. (Received June 03, 2005)