CONVEXITY, SUBADDITIVITY AND GENERALIZED JENSEN’S INEQUALITY

SHOSHANA ABRAMOVICH

Communicated by C. P. Niculescu

ABSTRACT. In this paper we extend some theorems published lately on the relationship between convexity/concavity, and subadditivity/superadditivity. We also generalize inequalities of compound functions that refine Minkowski inequality.

Date: Received: 4 February 2013; Accepted: 8 March 2013.
2010 Mathematics Subject Classification. Primary: 47A63; Secondary: 47A07, 26D15.
Key words and phrases. Convexity, subadditivity, Jensen’s inequality, Hölder’s inequality, Minkowski’s inequality.