MIXED SYMMETRIC MEANS RELATED TO THE CLASSICAL JENSEN’S INEQUALITY

Khuram Ali Khan and Josip Pečarić

Abstract. In this paper, we define some new mixed symmetric means corresponding to various refinements of classical Jensen’s inequality. A new refinement of classical Jensen’s inequality is given. We also prove the \( n \)-exponential convexity for the functionals constructed from the refinement results. In the end some applications are discussed.


Keywords and phrases: Convex function, Jensen’s inequality, mixed symmetric means, exponentially convex function.

REFERENCES