

A METHOD FOR PROVING REFINEMENTS OF INEQUALITIES RELATED TO CONVEX FUNCTIONS ON INTERVALS

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Abstract. In this paper, using the results of a recent paper by the author, we give a new method for proving refinements of inequalities related to convex functions on intervals. In many cases, the proof is simpler and more transparent than using the usual techniques, and the essence of the refinement is clearer. This is illustrated by two refinements of the Jensen's inequality and one refinement of the Lah-Ribarič inequality. As an application we generalize a recent result for strongly convex functions.

Mathematics subject classification (2020): 26D15, 26A51.

Keywords and phrases: Convex functions, refinements, integral Jensen inequality, integral Lah-Ribarič inequality.

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