

On Jensen's inequality involving averages of convex functions

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Abstract: Using Wulbert's result from [1], we deduce a method for constructing exponentially convex functions. These functions have monotonicity property with respect to defining parameters. Then constructed exponentially convex functions are used for construction of two and three parameters Cauchy means. Particularly, we generalize recent results on Cauchy means which were proposed in [2], [3].

Keywords: Jensen's inequality, log-convex function, exponential convexity.

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