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NONCONVEX FUNCTIONS AND SEPARATION BY POWER MEANS

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Abstract. In this note we show that, for a nonconvex function defined on a real interval, there exists a point where this function behaves like a strictly concave function. Due to this result, global convexity can be characterized as pointwise convexity everywhere. As an application, a necessary and sufficient condition for the separability of quasiarithmetic means with power means is obtained.

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