SOME NEW SCALES OF REFINED JENSEN AND HARDY TYPE INEQUALITIES

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Abstract. Some scales of refined Jensen and Hardy type inequalities are derived and discussed. The key object in our technique is $\gamma$-quasiconvex functions $K(x)$ defined by $K(x)x^{-\gamma} = \varphi(x)$, where $\varphi$ is convex on $[0,b)$, $0 < b \leq \infty$ and $\gamma \geq 0$.


Keywords and phrases: Inequalities, refined Hardy type inequalities, refined Jensen type inequalities, convex functions, $\gamma$-quasiconvex functions.

REFERENCES