A Note on Quasiconvexity and Rank-one Convexity for 2 $\times$ 2 Matrices

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Abstract: We report on an attempt to find a counterexample to the statement that rank-one convexity does not imply quasiconvexity in the case of 2 $\times$ 2 matrices. The failure of such attempt is a consequence of some surprising computations.

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