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Jerry R Muir, Jr.* (muirj2@scranton.edu), Department of Mathematics, University of Scranton, Scranton, PA 18510. *Extension of Convex Mappings of Order α of the Unit Disk in \mathbb{C} to Convex Mappings of the Unit Ball in \mathbb{C}^n* . Preliminary report.

For a convex mapping f of order $\alpha \in [0, 1)$ of the unit disk in \mathbb{C} , we consider conditions on the parameter $\beta \in [0, 1/2]$ so that the mapping $F(z) = (f(z_1), [f'(z_1)]^\beta \hat{z})$, $\hat{z} = (z_2, \dots, z_n)$, is a convex mapping of the Euclidean unit ball in \mathbb{C}^n . (Received September 12, 2008)