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Takeshi Miura* (miura@math.sc.niigata-u.ac.jp), Department of Mathematics, Faculty of Science, Niigata University, Japan. *Surjective isometries on $C^1[0, 1]$.*

Let $C^1[0, 1]$ be the Banach space of all continuously differentiable complex valued functions on the unit interval $[0, 1]$ with the norm $\|f\|_C = \sup\{|f(x)| + |f'(x)| : x \in [0, 1]\}$. We give characterizations of surjective isometries, which need not be linear, on $C^1[0, 1]$ with respect to the norm $\|\cdot\|_C$. (Received August 21, 2015)