

Equivalence between the p -cyclic quasimonotonicity and the p -cyclic monotonicity for affine maps

Orestes Bueno* John Cotrina† Eladio Ocaña‡

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Abstract

It is well known that, for general multivalued operators, that monotonicity implies quasimonotonicity. This is also true if we deal with cyclic monotone/quasimonotone or even p -cyclic monotone/quasimonotone operators. In this work, we prove, in general Banach spaces, that an affine p -cyclic quasimonotone operator is in fact p -cyclic monotone.

*Instituto de Matemática y Ciencias Afines. E-mail: obueno@imca.edu.pe

†CIUP - Universidad del Pacífico. E-mail: cotrina_je@up.edu.pe

‡Instituto de Matemática y Ciencias Afines. E-mail: eocana@imca.edu.pe