SOME ASPECTS ON EIGENVALUES AND SURJECTIVITY USING FIXED POINTS

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Abstract. In this paper, we will first prove the existence of fixed points for a weakly continuous, strictly quasi bounded operator on a reflexive Banach space and a completely continuous, strictly quasi bounded operator on any normed linear space. Using these results we can deduce the existence of eigenvalues and surjectivity of quasi bounded operator in similar situations.

Key Words and Phrases: Reflexive Banach space, weakly continuous operator, completely continuous operator, quasi bounded operator, strictly quasi bounded operator.

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