

# Injectivity Vs surjectivity and multipliers Vs quotient rings

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We shall begin with examples of classes of maps for which injectivity implies surjectivity or surjectivity implies injectivity or otherwise and give a gentle introduction to the notion of surjectivity. Then the concept of a trivolution with examples from algebras arising out of second duals of group algebras will be introduced. Next, we will give definitions and a few properties of multipliers and quotient rings of algebras. We will illustrate them for algebras of functions or operators.