On linear positive operators preserving exponential functions

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Abstract

This presentation deals with construction of the well-known linear positive operators which preserve constant and exponential functions. After that, we show the rate of convergence by using the modulus of continuity and investigate a quantitative Voronovskaya-type theorem. Finally, we illustrate the convergence behaviour of the constructed operators with the selected function f by using MATLAB.

Key Words: Exponential functions, Modulus of continuity, Voronovskaya-type theorem.

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