

The Solution of the One Species Lotka-Volterra Equation Using Variational Iteration Method

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ABSTRACT

This paper will present a numerical comparison between the variational iteration method (VIM) and the Adomian decomposition method (ADM) for solving the one species Lotka-Volterra equation. The numerical results demonstrate that the VIM are quite accurate and readily implemented.

Keywords: Variational iteration method (VIM), Adomian decomposition method (ADM), Lotka-Volterra equations