

On a parabolic equation with time delay

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Abstract: In this study, exact solution of a delay parabolic equation is found by using separation of variables and Fourier series method [3]. We find the numerical solution of initial-boundary value problem for delay parabolic differential equations with Neumann condition by using difference schemes [1-2]. Numerical solutions found by first and second order of accuracy difference schemes are given with tables.

Keywords: Delay parabolic equation, difference schemes

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