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The Reduced Differential Transform Method for Solving The Time-Fractional Kawahara Equation

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Abstract: This presentation, suggests an analytical technique called the reduced differential transform method (RDTM) for solving the time-fractional Kawahara equation. The fractional derivatives are described in the Caputo sense. This method is applied to the numerical example. Thus, we have obtained numerical solution of time-fractional Kawahara equation. Numerical solution obtained by this method has been also compared with the known exact solution. The obtained outcomes show this method is very efficient, convenient and simple.

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