Abstract

The authors of the above article proposed the improved - expansion method and found some traveling wave solutions for each of two nonlinear evolution equations in mathematical physics, namely the Regularized Long Wave (RLW) equation and the Symmetric Regularized Long Wave (SRLW) equation. In the present article, we have noted that if we use a suitable transformation, the improved \((G'/G)-\)expansion method can be reduced into the well-known generalized Riccati equation mapping method which provides us with much more traveling wave solutions, namely twenty seven solutions for each of these two nonlinear evaluation equations. Comparison between the results of these two methods is presented.

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mapping method for constructing many families of exact solutions for nonlinear partial

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Improved - expansion method; Generalized Riccati equation mapping method; the
nonlinear RLW equation; the nonlinear SRLW equation; traveling wave solutions