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In this paper, we show the applicability of the first integral method to Pochhammer-Chree equation and Bogoyavlenskii equations. Nonlinear evolution equations are separately reduced to nonlinear ordinary differential equations (ODE) by using a simple transformation. With the aid of Maple, new exact solutions of two selected nonlinear equations are derived. As a result, the power of the employed method is confirmed. This approach can also be applied to other nonlinear evolution equations used in applied mathematics and physics. (Received January 02, 2012)