1145-35-1895 **H Semiyari*** (semiyari@american.edu), 4400 Massachusetts Avenue, NW, Washington, DC 20016. A power series solution to partial differential equation problems. Preliminary report.

In this article, we introduce a simple straightforward and powerful method involving symbolic manipulation, Picard iteration, and auxiliary variables for approximating solutions of partial differential problems. The method is easy to implement, computationally efficient, and it is highly accurate. The output of the method is a function that approximates the exact solution. (Received September 24, 2018)