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Step-by-step Solution Possibilities in Different Computer Algebra Systems

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Abstract:

The tasks on equation solution and expression manipulation in school mathematics are often so simple that Computer Algebra Systems have no difficulty finding the answer in one step. How do Computer Algebra Systems give the student the possibility to create the solution step by step? Are the steps given in sufficient detail? How can the user follow the algorithms suggested in textbooks step by step (clear parentheses; use addition property etc.) with the help of the system? This paper compares DERIVE, Maple, Mathematica and MuPAD.