Solving Equations with the TI-92 or DERIVE
An Example of Experimental Learning, Visualization, and the Scaffolding Method

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Abstract of the Workshop

We describe experiments for learning how to solve linear equations and systems of linear equations by means of the numeric method of table refinement, the graphical method of intersection point determination, and the algebraic method of equivalence transformation. In addition our approach follows the educational concepts of visualization and the scaffolding method. Instructions are given for solving linear equations and systems of linear equations with integral, fractional, and algebraic coefficients. Degenerate equations are also discussed.