COMPUTER FACILITATION IN UNDERSTANDING SOME NOTIONS IN ORDINARY DIFFERENTIAL EQUATIONS

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Abstract. Modern technology may facilitate a deep understanding notions which are basic for future progress in learning and professional activity. In particular, it concerns such advanced areas as differential equations, where in many cases one needs a lot of time to produce instructive examples explicating ideas such as a direction field and the sensibility to initial conditions. In the paper there is reported the effective and attractive use of two computer programs (DERIVE and WinPlot) in understanding these two notions in differential equations of the form y'=f(x,y) stating the relation between variables x and y=y(x) related to the rectangular co-ordinate system Oxy.

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