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An analysis of students' responses to a questionnaire on ordinary differential equations. (Análisis de las respuestas de estudiantes universitarios a un cuestionario sobre el concepto de ecuación diferencial ordinaria.)

Form. Profr. Investig. Educ. Mat. 7, 127-140 (2005).

Summary: A preliminary analysis is presented with the aim of experimenting, in the future, a teaching sequence of a concept which is usually taught in many scientific and technological studies: ordinary differential equations (ODE's). To carry out this analysis a questionnaire was designed in which some different representation registers were combined: algebraic, graphic and verbal. This questionnaire has been elaborated to answer some research questions that we consider very important in the study of the understanding of ODE's by students of different courses, where the concept is taught in different ways. For this particular job, we center our attention in the analysis of the answers by students in the first year of physics sciences in La Laguna University.

Classification: I75 D65 C35

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