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Gains and pitfalls of quantifier elimination as a teaching tool.

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Summary: Quantifier Elimination is a procedure that allows simplification of logical formulas that contain quantifiers. Many mathematical concepts are defined in terms of quantifiers and especially in calculus their use has been identified as an obstacle in the learning process. The automatic deduction provided by quantifier elimination thus allows students to exercise the formulation of concepts using quantifiers. This may be seen as conceptual modelling.

Classification: E30 D70 I10

Keywords: quantifier elimination; mathematical formulas; calculus; mathematical logic

<http://www.researchinformation.co.uk/time/contents/timecont.php>