

Séminaires de l'unité de recherche éducationnelle en mathématiques / Mathematics Educational Research Unit Seminars

CAS IN SECONDARY SCHOOL ALGEBRA: STUDENT LEARNING AND TASK CONSTRUCTION

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My presentation, which focuses on Computer Algebra System (CAS) technology at the secondary school level, is in two parts. The first part describes a small comparative study carried out with pairs of classes of average/below-average Grade 10 students – one class of each pair being provided with CAS technology and the other class not. Two sets of parallel tasks were designed with the main difference between the two being the use of the CAS tool. Results indicate that the CAS class improved more than the non-CAS class with respect to both technique and theory. However, this study and others related to CAS implementation reveal that the work of generating tasks is a non-trivial one for teachers. Thus, the second part of the presentation addresses the issue of task construction within technology environments and describes some conceptual tools that can assist in this work, accompanied by examples of tasks whose construction was guided by a particular theoretical framework.

N.B.: La présentation sera bilingue / This presentation will be bilingual

Date : Jeudi, **24 janvier** de 16h à 17h30 / Thursday, **January 24th**, from 4.00-5.30pm

Local / Room: **LMX 477**

Nous vous attendons en grand nombre ! / We look forward to seeing you!

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