Spring Colloquium Series

Proof Comprehension: A case study of Abstract Algebra students

Prof. Eyob Demeke
CSULA

Abstract: This talk mainly discusses a study I conducted on proof comprehension with eleven undergraduate students. The proofs were taken from an undergraduate abstract algebra course. My interpretation of what it means to understand a proof is based on a proof comprehension model developed by Mejia-Ramos, et al. (2012). The talk, in particular, examines undergraduate students attempting to summarize/modularize a proof using its higher-level ideas. Focus is given to students' attention to key ideas in the proof and the method used in the proof.

Keywords: RUME (research in undergraduate mathematics education), proof comprehension

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