1056-P5-1952   **Jessica L Knapp*** (`jessica.knapp@pima.edu`), Pima Community College, 7600 N Shannon Rd, Tucson, AZ 85709. *Appropriating New Definitions: The Case of Lipschitz Functions.*

Learning new definitions is a vital skill for mathematics students. This paper seeks to describe several ways that junior mathematics students approached a new definition in a real analysis context. Students explored the definition by sketching graphs, re-wording the statement, looking for examples, negating the statement, finding non-examples and relating it to definitions students had already encountered. Some of these tasks proved more fruitful than others. (Received September 22, 2009)