An Analysis of Transition-to-Proof Course Students' Proving Difficulties

Ahmed Benkhalti, John Selden, and Annie Selden Department of Mathematical Sciences, New Mexico State University js9484@usit.net

We analyzed undergraduate students' examination papers from a transition-to-proof course. We have identified process, rather than mathematical content, difficulties such as not constructing a proof framework first, not unpacking the conclusion, and not using definitions correctly. Examples of these difficulties will be presented