

1124-97-363

Mulugeta Markos* (mmarkos@atl1m.edu), 3980 Embassy Way, Lilburn, GA 30047. *My Experience in Teaching Proofs.*

Most students think there is only one way to prove a mathematical statement. Many mathematics teachers tend to prove a theorem in the classroom using one method, but approaching the proof of a theorem or any mathematical statement in different ways helps the teacher to deliver more concepts to students. In an article addressing several questions about proofs, Eric Knuth (2002) indicates the central role of proofs in mathematics. Students learn to appreciate proofs when they see proofs from different angles though the different methods could sometimes be challenging to them. In constructing multiple proofs students learn more connections among numbers, algebraic operations, definitions, mathematical facts and formulas. Teaching proofs in different ways helps teachers to improve their teaching ability and creativity. In this paper I will share my experience of teaching proofs to undergraduate students for long period. The teaching approach introduced in this paper encourage teachers to apply different ways when dealing with proofs. (Received September 13, 2016)