

Formative assessment in Maths: challenges and achievements

Ana Moura Santos¹,

¹ Dept. of Mathematics, Instituto Superior Técnico, University of Lisbon

The goal of a formative assessment is to accompany students in their learning, using assessment activities with frequent feedback. This way it can be easier for students to arrive at the final exam properly prepared. Meaningful learning in mathematics happens in classroom experiences relevant to Engineering students' lives, interests and experiences. What if we apply the assessment within the learning path? We could use it for checking to see if the learning is there. Otherwise we can give feedback and support students to get back on track.

In this talk I will present several examples of applying mathematical software to assist formative assessment aimed at students enrolled in Linear Algebra courses.

References

- [1] MOURA SANTOS, ANA, COSTA, LUIS, *Linear Algebra Flipped Classroom with a MOOC*, arXiv:2103.11810 [math.HO] (2021).
- [2] MOURA SANTOS, ANA, RIBEIRO, PEDRO, *Assessment in an Online Mathematics Course*, Proceedings EMOOCs-WIP 2017, 22 - 27 (2017).
- [3] FINAMORE, ANA CAROLINA, MOURA SANTOS, ANA, RIBEIRO, PEDRO, *Fostering Stem Formative Assessment for Lifelong Learners*, Proceedings ICERI2016, 152-159 (2016).