The text presented in this article describes an initial experience of an online course aimed at primary and secondary school mathematics, enabling them to make efficient and effective use of new tools and resources – GeoGebra and Moodle – through proper technology educational.

Nowadays, many teachers become increasingly distant from the students who belong to a generation steeped in digital media. Besides acquiring new skills due to new tools, teachers need to rediscover themselves in a new role, interacting in a dynamic new system that includes teacher, student and tools.

How to achieve a meaningful learning, if the latter two actors are extremely agile, to give space to reflection, thus constituting a true experience?

These are some of the major challenges and questions that guide this work and are nowadays presented to teachers.

The course "Mathematical Dynamics" was organized in thematic units in accordance with the curricular guidelines for Primary and Secondary schools and allowing the participants to evaluate the scope of technology used and the possibility of adapting it to their needs.

The tools chosen - GeoGebra and Moodle - are freely accessible and easily used, an important factor for the new technology will be incorporated into teaching practice.

The positive results show that a well-constructed proposal with clarity regarding what it intends to achieve can meet the expectations of the teachers, showing also that the challenge of using new technologies involves not only technical issues but changes in behavior and relationships between the actors involved in the system.

**KeyWords**: Distance Learning, Teacher Education, Moodle, GeoGebra.