

THE DEVELOPMENT OF HIGH SCHOOL STUDENTS' MATHEMATICS JUSTIFICATION SKILL THROUGH PMRI LEARNING ACTIVITIES

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ABSTRACT

The main goal of this present study is a product, a sequence of learning activities which support the development of students' mathematics justification skill. The product will be materialized by answering questions namely, (1) how does a form of learning activities based on PMRI could facilitate the development of students' mathematics justification skill? And (2) how do designed learning activities based on PMRI could help the delopment of students' mathematics justification skill? This present study used Research and Development type of study. The research design used here is ADDIE development model. This study conducted in three high schools in Sleman Region, DIY. Besides students, the mathematics teachers also involved. The results of this present study show that learning activities based on PMRI approach could facilitate the development of student' mathematics justification skill. For every meeting, there was the number of students increased who participated in discussion, stated ideas and opinions, and convinced their firnds what they did was the right thing. The learning activities based on PMRI could help the development of students' mathematics justification skill by focusing on PMRI characteristics as one of approaches developed in the line of constructivism.

Kata Kunci: *PMRI, justification, mathematics learning*