

ABSTRACT

KIREINA SUPARWATI. *Analysis of Students' Mathematical Concept Understanding Ability through Indonesian Realistic Mathematics Education Approach (PMRI)*

The use of the learning approach has an important role in the learning process which will later affect the ability to understand students' mathematical concepts. One approach that can help develop students' ability to understand mathematical concepts is the Indonesian Realistic Mathematics Education (PMRI) approach. The use of the Indonesian Realistic Mathematics Education (PMRI) approach is motivated by the existence of meaningful mathematics learning. This study aims to determine: (1) the philosophical basis of the students' ability to understand mathematical concepts; (2) students' ability to understand mathematical concepts through the Indonesian Realistic Mathematics Education (PMRI) approach; (3) the implementation of the Indonesian Realistic Mathematics Education (PMRI) approach to the students' ability to understand mathematical concepts. The approach used in this research is a qualitative research approach. The type of research chosen in this research is literature study. The data collection technique used in this research is through documentation study. Sources of data used in this study include primary data sources and secondary data sources. Based on the analysis that has been carried out, the following conclusions are obtained: (1) the ability to understand mathematical concepts is the ability of students to master a number of materials by knowing the relationship of ideas in abstract form from finding to making meaningful conclusions about a concept; (2) the use of the Indonesian Realistic Mathematics Education (PMRI) approach to learning mathematics at the basic education level which includes Elementary Schools and Junior High Schools and equivalent at the secondary education level which includes Senior High Schools and equals has a positive effect on the ability of students to understand mathematical concepts; (3) the implementation of the Indonesian Realistic Mathematics Education (PMRI) approach by bringing out the principles and characteristics of the Indonesian Realistic Mathematics Education (PMRI) approach is an effort to meet the indicators of students' ability to understand mathematical concepts.

Keywords: *Ability to Understand Students' Mathematical Concepts and Indonesian Realistic Mathematics Education Approach (PMRI)*