

ABSTRACT

Destri Handayani. *Influence Approach Indonesian Realistic Mathematics Education (RME) of the Representation of Mathematical Ability Junior High School Students.*

This study entitled Influence Approach Indonesian Realistic Mathematics Education (RME) of the Representation of Mathematical Ability Junior High School Students. This research was motivated by the students' ability in mathematics, especially at the secondary level tends to be less. The purpose of this study were: 1) Determine whether the traffic mathematical representation of students who use RME better than conventional learning gain; and 2) Knowing how students' attitudes toward learning mathematics by using RME approach. The method used was experimental. Experimental design using pretest-posttest control group. This research was conducted in SMP YAS Bandung with a sample class VIII E as the experimental class is a class with a treatment and VIII F as the control class is the class that is getting regular learning. The results showed that the ability of representation on the lessons RME approach is better than getting conventional learning. This is evident from the results of data collection and analysis of data obtained from the average posttest experimental class better than control class. The results of t-test showed values of t_{count} better than t_{table} , with acceptable H_a so then it means the ability of a mathematical representation of students who use RME approach is better than the gain of conventional learning. The conclusion of this study are: 1) the ability to obtain a mathematical representation of students learning RME approach better than students who received conventional teaching; and 2) students' positive attitudes towards mathematics subject areas using RME approach. Suggestions that the authors propose that: 1) learning by using RME approach can be an alternative in the process of learning mathematics; 2) suggested for further research, it can investigate other capabilities using RME; and 3) is recommended for further research to be more selective and more about appropriate materials to RME approach.

Keywords: *RME, Mathematical representation.*