

ABSTRACT

NOEGY AGUNG PAMUNGKAS. *Improved Mathematical Representation Ability and Self-Confidence of High School Students Through Resource Based Learning Assisted Google Classroom*

Mathematical representation ability is very important because this ability is one of the abilities that must be possessed by students in 2013 curriculum learning. This research is a quantitative study that provides information on mathematics learning with the Resource Based Learning on mathematical representation abilities and Self-Confidence. The purpose of this study was to determine the increase in the mathematical representation ability of students who received the Resource Based Learning assisted by Google Classroom, the achievement of Self-Confidence of students who obtained the Resource Based Learning and to determine the correlation between mathematical representation ability and Self-Confidence of students who obtained the Resource Based Learning. The method used is a quasi-experimental method (quasi-experimental). The subjects of this study were students of class XI for the academic year 2021/2022 at a high school in Bandung with a sample of 60 students, including 30 students of class XI MIPA 1 as the experimental class who received the treatment of the Resource Based Learning and 30 students of class XI MIPA2 as a control class that received a conventional learning model with the lecture method. The research instrument used was a mathematical representation ability test and a self-confidence. The collected data is processed with the help of the SPSS 24.0 application for windows. The results obtained: 1) the mathematical representation ability of students who received the resource based learning was higher than students who received the conventional learning model, 2) the self-confidence of the students who received the resource based learning was better than the students who received conventional learning, 3) there were correlation between mathematical representation ability and self-confidence of students who obtained a resource based learning assisted by google classroom.

Keywords: *Mathematical Representation, Self-Confidence, Model Resource Based Learning*