

ABSTRACT

Audini Puspasari. (2018). *Improvement of Mathematics Creative Thinking and Self-confidence through the Implementation of Project Based Learning for Senior High School Students.*

This research aims to examine the application of Project Based Learning (PjBL) model towards the improvement of mathematics creative thinking ability and students self-confidence. In this research, the method used was quasi-experimental, with pretest-posttest control groups design. Population in this research is all students of class XI SMA PGRI 1 Bandung with a sample of students of XI MIPA 1 class as an experimental class and students of XI MIPA 2 class as a control class. The sample was selected by random class method. In this study, the instrument used are a description type of mathematics creative thinking ability test and questionnaire of self-confidence. Before the research was carried out, the two instruments were tested first to see the validity, reliability, difficulty index and the power of the division. Based on the result of the trial, both instruments are suitable to use. Analysis of the data used is Independent sample t-test through SPSS 20 program for Windows, for questionnaire data to be converted first into quantitative data with MSI (Method of Succesive Interval). Based on the results of data analysis, it can be conclude that: 1) Mathematics creative thinking ability of high school students who obtain the Project Based Learning model is better than students who obtain STAD type of cooperative learning. 2) Improvement of mathematical creative thinking skills of high school students who obtain better Project Based Learning learning models than students who obtain STAD type of cooperative learning. 3) Mathematical self-confidence of high school students who obtain Project Based Learning model is better than students who obtain STAD type of cooperative learning. 4) There is no relationship between mathematical creative thinking skills and self-confidence of high school students who obtain Project Based Learning learning models. Therefore, the Project Based Learning model can be used as an alternative for teachers in implementing the learning of mathematics in the classroom.

Keywords : *Project Based Learning model, Mathematical Creative Thinking, Self-confidence .*