

ABSTRACT

Lita Andriyani (135050053). **Use of Problem Centered Learning (PCL) Learning Model to Problem Solving Ability and Mathematical Productive Disposition of High School Students.** Thesis Department of Mathematics Education FKIP Pasundan University Bandung in 2017.

Mathematics is one of the main lessons taught in every level of education. Mathematical problem solving skills are indispensable for students in learning mathematics. However, the students' mathematical problem solving ability turned out to be low. This is because teachers rarely practice the problem solving skills of students during the learning process. One of the alternative learning that can improve problem solving ability is Problem Centered Learning (PCL) learning model. According to the method, this research is an experimental research. population in this study were all students of class XI SMA Pasundan 2 Bandung academic year 2016-2017. The sample of the research is students of class XI IPA SMA Pasundan 2 Bandung as many as 2 classes chosen randomly according to class. The instrument used in the research is a type of problem description test of problem solving skills and productive disposition questionnaire using Likert scale model. The attitude scale contains statements about mathematics learning. The problem solving capability instrument is tested first in class XII IPA 2 which has studied the derived function material. Based on the analysis of test results, all test questions are feasible for research use. Data analysis was done by using t-test through SPSS 18.0 for windows program by using Independent Sampel t-Test. Based on the data analysis of the research results, it can be concluded that the problem solving ability of the students who get the Problem Centered Learning model is better than the students who get the conventional learning model; the ability of productive disposition of students who get the learning model Problem Centered Learning is better than the students who get the conventional learning model and there is a correlation between the student's productive disposition with the problem solving ability of the students who get the Problem Centered Learning model and who get the conventional learning model. Therefore, Learning Centered Learning model can be used as an alternative for teachers in implementing their learning to create an active, effective and enjoyable learning environment.

Keywords: Mathematical Problem Solving, Problem Centered Learning Learning, Productive Disposition