

## **ABSTRACT**

***Gumelar Nur Oktaviana. Application of Problem Centered Learning learning models to improve Mathematical Creative Thinking Ability and Self-awareness in high school students.***

*Mathematical creative thinking skills are needed by students in understanding mathematics. But students' ability to think creatively is still low. One alternative learning that can improve mathematical creative thinking skills is the Problem Centered Learning model. The purpose of this study was to determine whether mathematical creative thinking abilities that obtain Problem Centered Learning models are higher than students who obtain conventional learning, knowing that students' self-awareness obtain Problem Centered Learning models better than students who obtain conventional learning and for knowing the effectiveness of Problem Centered Learning models on mathematical creative thinking skills. This research is an experimental research. The population in this study were all students of class X SMAN 15 Bandung academic year 2017-2018. The sample of this study were students of class X MIPA 1 and X MIPA 2 SMAN 15 Bandung as many as two classes chosen randomly according to class. The instrument used in this study is a mathematical creative thinking ability test and a self-awareness questionnaire that uses a Likert scale. Tests and questionnaires are tested first in class XI MIPA. Data analysis using SPSS 20 program. Based on the analysis of research data, it can be concluded that students' mathematical creative thinking ability who have a Problem Centered Learning model is higher than students who obtain conventional learning; self-awareness of students who obtain Problem Centered Learning models better than students who obtain conventional learning; Problem Centered Learning models are effective to improve students' creative thinking skills. Because of that the learning model Problem centered Learning can be used as an alternative for teachers in carrying out their learning to create an active and enjoyable learning atmosphere.*

***Keywords:*** *Mathematical Creative Thinking, Problem Centered Learning Model, Self-awareness.*