

ABSTRACT

Muhammad Rifki Samsurizal. (2020). *Analysis of Students' Mathematical Reasoning Ability Through the Problem Posing Learning.*

In the learning process, students do not explore, find characteristics, construct conjectures and then test them but only accept what is given by the teacher so that it has an impact on low mathematical abilities, especially mathematical reasoning possessed by students. One of the lessons that can improve students' reasoning skills is problem-posing learning. The objectives of this study were to: 1) Analyze how the concept of students' mathematical reasoning abilities; 2) Analyze how students' mathematical reasoning abilities through problem posing learning; 3) Analyze differences in students' mathematical reasoning abilities through problem posing learning. The method used is a qualitative method with the type of literature study research. The data sources used are primary data and secondary data. Research techniques used are editing, organizing, dan finding. The data analysis used was deductive, inductive, and comparative. Based on the data analysis, it can be concluded as follows: 1) Mathematical reasoning ability is an activity or a process of drawing conclusions characterized by the existence of a thought process step. Mathematical reasoning skills help students to conclude and prove a statement, build new ideas, to solve problems in mathematics. 2) Learning problem-posing (asking a problem) is a lesson to formulate or ask math questions. Where in the process students build their problems so that they will be more motivated and can practice their thinking skills. 3) The use of problem-posing learning can improve students' mathematical reasoning abilities.

Keywords: *Mathematical reasoning ability, problem posing*