ABSTRACT

Yulita Venesia , <u>Efforts to Improve the Ability of Mathematical Reasoning Students Use Learning Model Learning Cycle 7e on Subjects of Basic Presentation of Data and Opportunities in Class X MIA-1 SMA N 9 Jakarta</u> . Skripsi. A Program of Study Math Education , the Faculty of Mathematics and Natural Sciences , State University of Jakarta , 2016 .

This study attempts to improve the ability of mathematical reasoning students on the subjects of presentation of data and opportunities in class x mia-1 Senior High School 9 jakarta through use the model learning cycle 7e . Based on the results of observation and test results of pre research the ability reasoning mathematical students who in a classroom SMA N 9 Jakarta showed that the reasoning mathematical students in the category of low, namely 31,44 of the maximum 100. Hence, efforts are required to enhance the capacity of mathematical reasoning students. One effort to overcome the problem of learning that takes place is by applying model learning cycle 7e. Model learning cycle consisting of 7 stages, namely elicit , engage , explore , explain , elaborate , evaluate and extend, each phase can improve the ability of mathematical reasoning students in learning.

The research is research the act of a class (classroom action research) that have been undertaken in the three cycles and every cycle consisting of four including planning stage , the implementation of the , analysis and reflection . Every cycle use model learning cycle 7e. Students was also given tests the last on any cycle for measuring increased capacity mathematical reasoning students .This study lasted from april to may 2016 in class X MIA-1 SMA N 9 Jakarta the academic year 2015 / 1016 and the number of students 36 people.

The results of the study showed that learning mathematics use the model learning cycle 7e can improve the ability of reasoning mathematical students to the matter presentation of data and opportunities. This shown based on the results of observations on the activity learning mathematics with a model learning cycle 7e. In addition, improve the ability of reasoning mathematical students can be seen from the increase in value the average test the end of cycle. The average test scores the end of the ability reasoning mathematical students X MIA-1 in cycle I is 53,48 including on the criteria C+ , then in cycle II increased to 68,03 including on the criteria B and in cycle III increased to 80,22 including on the criteria B+ . Then the number of students with the ability reasoning mathematical reach or more than 75 has been an increase in. Cycle I as many as 10,34 percent of students, in cycle II increased to 24,24 percent of students and on cycle II increased to 84,37 percent of students .

***Keyword**s: the Ability of Mathematical Reasoning, model learning cycle 7e*