

ABSTRACT

MEGA ALAWIYAH MAKSUM. Efforts to Increase the Ability of Understanding Mathematical Concept of Students Using Cooperative Learning Model Thinking Aloud Pair Problem Solving (TAPPS) In Trigonometry Material in Class X IPS SMA Al-Muslim Tambun.

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This study aims to improve understanding of mathematical concepts of learners through the implementation of cooperative learning model type Thinking Alous Pair Problem Solving (TAPPS) in class X IPS with trigonometric material. In this study, the researcher uses seven indicators of understanding of mathematical concepts such as re-concept, giving examples and non-examples of concepts, classifying objects according to certain traits, presenting concepts in various forms of mathematical representation, using algorithms related to concepts, Associate concepts, use appropriate concepts to solve problems.

Research subjects in this study were 6 learners selected from 30 students X Class IPS SMA Al-Muslim. This research uses qualitative approach with Class Action Research method (PTK). The study was conducted in three cycles, and each cycle consisted of two meetings. Data collection techniques used in this study are observation, tests, and interviews. The data obtained were analyzed descriptively by triangulation of data.

Based on the results of research and discussion it can be concluded that there is an increased understanding of mathematical concepts experienced by students X Class IPS SMA Al-Muslim after the implementation of TAPPS learning model. The statement is based on the results that have been obtained at the end of each cycle, in the pre-cycle test the average score of learners is 5.36%, in the first cycle test increased to 18.97%, in the second cycle test increased to 64.17% and on Cycle III to 86.9. An increase of 66.67% of students in the pre-cycle test to the first cycle test, from cycle I to cycle II there are 50% of students who have increased, and in cycle II to cycle III that increased by 90% of students.

Keywords: Understanding Mathematical Concepts, Learning Thinking Model Alous Pair problem Solving (TAPPS).