

THE DIFFERENCE OF STUDENT'S MATHEMATICAL REPRESENTATION
ABILITY TAUGHT BY USING COOPERATIVE LEARNING TPS WITH
STAD TYPES FOR GRADE X IN SMA NEGERI 7 MEDAN

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ABSTRACT

The aim of this research is to know whether student's Mathematical Representation Ability taught by using Cooperative Learning TPS type is higher than Cooperative Learning STAD Type for Grade X in SMA Negeri 7 Medan. The population is all students of grade X in SMA Negeri 7 Medan A.Y. 2014/2015. Sampling Techniques that is used in this research is random sampling. There are two samples in this research namely, Experimental class A is X MIA 4 taught by cooperative learning TPS and Experimental class B is X MIA 3 taught by cooperative learning STAD. This research using pretest and posttest where, data of pre test and post test are normal distribution and homogeneous. The result of the research shows that the average score of pretest in experiment class A and B are 39.58 and 45.9. After doing treatment in experiment class A and B obtained average score of posttest are 85.48 and 80.45. Hypothesis testing that have been conducted in this research is by calculating manually and results of hypothesis test of data from both experimental class in post test was found that $t_{calculated}(2.67) > t_{table}(1.66462)$. It indicates that H_0 is rejected. So, we can conclude that Students' mathematical representation ability taught by using cooperative learning TPS type is higher than cooperative learning STAD type.