DIFFERENCE OF STUDENTS' MATHEMATICAL CONNECTION ABILITY USING REALISTIC MATHEMATICS EDUCATION APPROACH AND PROBLEM POSING APPROACH IN SMP SWASTA KATOLIK ASSISI MEDAN ACADEMIC YEAR 2014/2015

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ABSTRACT

This research is quasi-experiment. The purpose of this research was to know if students' mathematical connection ability in RME class is different with students' mathematical connection ability in Problem Posing class at SMP Swasta Katolik Assisi Medan Academic Year 2014/2015.

Population of this research was all students of SMP Swasta Katolik Assisi Medan. As sample for this research choosen two class in eighth grade. Class VIII-4 as experimental class I which taught with RME approach and class VIII-2 as experimental class II which taught with Problem Posing approach. Each class consist of 31 students. Collecting data technique of this research was mathematical connection ability test that was given in the end of learning.

Based on normality test and homogenity test that already done, the data sample was taken from normal distributed and homogeneous population. From the data analysis by using t-test with significance level $\alpha = 0.05$, it was obtained that $t_{calculated} = -1.785$ and $t_{table} = 1.670$. It means that $t_{calculated} < -t_{table}$, then H_0 is rejected and H_a is accepted.

It can be concluded that there is significant difference of students' mathematical connection ability in RME approach class and students' mathematical connection ability in Problem Posing approach class at SMP Swasta Katolik Assisi Medan.

From the research that has been done, researcher suggest the use of RME approach and problem posing approach as alternative approach in improving students' mathematical connection ability.