

**THE COMPARISON OF STUDENTS' MATHEMATICAL PROBLEM
SOLVING ABILITY ON CONTEXTUAL TEACHING LEARNING
AND REALISTIC MATHEMATICS EDUCATION
IMPLEMENTATION ON GRADE XI IN SMAN 1
LUBUKPAKAM ACADEMIC YEAR 2016/2017**

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ABSTRACT

The aim of this research is to know whether student's Mathematics Problem Solving Ability taught using Contextual Teaching learning is higher than Realistic Mathematics Education for Grade XI in SMA Negeri 1 Lubukpakam at Academic Year 2016/2017. Sampling techniques that is used in this research is purposive sampling. There are two samples in this research those are, Class A is XI MIA 3 taught by CTL and Class B is XI MIA 5 taught by RME. Each of class consist of 30 students. Technique of analyzing data is consisted of normality, homogeneity, and hypothesis test. Based on normality and homogeneity test, the data was taken from normal distribution and homogeneous population. Hypothesis test is done by using analysis of t-test. The result of t-test show that $t_{\text{calculated}} = 2.878$ and $t_{(0.5)(58)} = 1.672$. Consequently $t_{\text{calculated}} > t_{\text{table}}$, then H_0 is rejected. So, we can conclude that students' mathematics problem solving ability taught using Contextual Teaching Learning model is higher than taught using Realistic Mathematics Education.

Keyword : *mathematical problem solving ability, CTL, RME*