

THE COMPARISON OF STUDENTS' MATHEMATICAL PROBLEM SOLVING ABILITY BY USING PROBLEM BASED LEARNING AND REALISTIC MATHEMATICS EDUCATION ON THE TOPIC OF LINEAR PROGRAMMING IN GRADE XI SMAN 2 KISARAN 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 Realistic Mathematics Education is better than Problem Based Learning for Grade XI in SMA Negeri 2 Kisaran 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 RME and Class B is XI MIA 6 taught by PBL. Each of class consist of 35 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 $t_{\text{calculated}} = 3,386$ and $t_{\text{table}} = 1,668$. Consequently $t_{\text{calculated}} > t_{\text{table}}$, then H_0 is rejected. Then obtained conclusion, Students' taught using Realistic Mathematics Education have better problem solving ability than Problem Based Learning.

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