

ABSTRACT

Dinar Kamaludin. The Influence of Quantum Learning Methods with Mind Map Techniques against Increasing Mathematical Critical Thinking Ability and High School Student Confidence.

Mathematical critical thinking ability is needed by students in understanding mathematics. But students' mathematical critical thinking skills are still low. One alternative learning that can improve mathematical critical thinking skills is the Quantum Learning of Mind Map technique. The purpose of this study was to 1) find out whether the mathematical critical thinking abilities of students who obtained Quantum Learning method of Mind Map Technique were higher than those of students who received conventional learning, 2) know Self-confidence students obtain Quantum Learning method Mind Mapping Technique both of students who obtained conventional learning and 3) to find out there was a correlation between mathematical critical thinking skills and self-confidence students who obtained Quantum Learning method of Mind Map Technique. This study uses a quasi-experimental method. The population in this study were all students of class X National High School 2018-2019 school year. The sample of this study were students of class X-IPS 1 to be an experimental class and X-IPS 2 to be a control class that was chosen randomly according to class. The instrument used in this study is a mathematical critical thinking ability test and a Self-confidence questionnaire that uses a Likert scale. The test instrument was tested first in the XI-MIPA class. Data analysis using SPSS 20.0 for Windows software. Based on the analysis of research data, it was concluded 1) the mathematical critical thinking ability of students who obtained Quantum Learning method of Mind Map Engineering Technique was higher than those of students who received conventional learning, 2) Self-confidence of students who obtained Quantum Learning method of Mind Map Technique more better than students who received conventional learning, 3) there was no correlation between mathematical critical thinking skills and self-confidence students who obtained Quantum Learning method Mind Map Technique. Therefore the Quantum Learning Method of Mind Map Technique can be used as an alternative for teachers in carrying out their learning to create an active and enjoyable learning atmosphere.

Keywords : Mathematical Critical Thinking, Quantum Learning Method With Mind Map Technique, Self-confidence.