

## **ABSTRACT**

Fitria Dwi Nurjanah (2018). *The Effect of The 7E Learning Cycle Model on The Ability to Critical Thinking Mathematical and Self-Confidence of High School Students.*

*The ability of students to critical thinking mathematically is currently low, one of the causes is lack of students' level of self confidence in mathematics learning. Alternative learning that is considered capable of improving mathematical critical thinking skills and self*

*confidence of students is the 7E Learning Cycle model. This study aims to: (1) Know the improvement of students' critical thinking skills who obtain the 7E Learning Cycle model with students who obtain conventional learning model, (2) Knowing whether the mathematical Self Confidence ability of students who obtain the 7E Learning Cycle model is better than students who obtain conventional learning models, (3) Knowing whether there is a positive correlation between mathematical critical thinking abilities and Self-Confidence students who obtain the 7E Learning Cycle model. This study uses a quasi-experimental research method with the pretest-posttest control group design. The subject of this study was the high school students of class X in the city of Bandung. Data collection was carried out by using mathematical critical thinking ability test instrument and self confidence questionnaire test instrument. Based on the results of data analysis and testing hypotheses about mathematical critical thinking abilities and Self Confidence students who obtain the 7E Learning Cycle model and conventional learning models, the following conclusions are obtained: (1) Increased mathematical critical thinking skills of students who obtain Learning models Cycle 7E is higher than students who obtain conventional learning models, (2) Self Confidence students who get the 7E Learning Cycle model are better than students who obtain conventional learning models, (3) There is a positive correlation between mathematical critical thinking abilities and Self Confidence students who obtain the 7E Learning Cycle model.*

*Keywords: 7E Learning Cycle Model, Mathematical Critical Thinking Ability, Self Confidence*