

ABSTRACT

Sri Agustini Dalimunthe. (2020). *Analysis of Critical Thinking Ability And Mathematical Anxiety Through the 7E Learning Cycle Model in Middle School*

This research is a qualitative research that provides information about mathematics learning in junior and senior high schools with the 7e learning cycle learning model for critical thinking skills and mathematical anxiety. The purpose of this research is: (1) to describe critical thinking skills through the 7e learning cycle model; (2) describe mathematical anxiety through the 7e learning cycle model; (3) to describe the effectiveness of learning cycle 7e towards mathematical critical thinking skills. Data analysis techniques use deductive techniques, inductive techniques, and interpretation techniques. The results showed that: (1) Learning Cycle 7E learning model at the junior high school level, the indicator determining action was the largest and the lowest indicator was focusing on questions. In the high school level the interpretation indicator was the largest while the lowest was analysis indicators; (2) there is no significant anxiety between junior high school students and high school students, but the higher the level of anxiety, the lower the mathematics learning achievement. The mathematical anxiety factors include gender factors and favorite school factors; (3) based on the the pre-test post-test and N-Gain test, show that the increased of students critical thinking skills uses the 7e learning cycle model, and when viewed from the coefficient of determination there is an influence between the 7e learning cycle model on critical thinking and student learning outcomes.

Keywords : *learning cycle 7e, critical thinking, mathematic anxiety, indicator.*