

ABSTRACT

Anindya Diva Primariesty. Upaya Meningkatkan Kemampuan Berpikir Kritis Matematis Siswa Melalui Penerapan Model Pembelajaran POE (Predict-Observe-Explain) Pada Pokok Bahasan Bangun Ruang Sisi Datar di Kelas VIII-9 SMP Negeri 216 Jakarta. Essay. Jakarta. Mathematics Education, Department of Mathematics, Faculty of Mathematics and Natural Sciences, State University of Jakarta 2016.

This study aims to improve students' critical thinking skills through a mathematical model of learning in class VIII-9 SMP Negeri 216 Jakarta. Students' critical thinking ability need to be raised over the implementation of 2013 curriculum. Based on preliminary observations and test results of pretest, it is known that the ability of critical thinking in class VIII SMP-9 216 still low. Therefore, the students need to improve the critical thinking ability. POE Learning Model is a suitable model to improve students' critical thinking in study mathematic. POE learning model consists of three stages: Predict, Observe, and explain.

This research is a classroom action research. The research is carried out in three cycles with each cycle consisting of two meetings. In each cycle, students are given a final test to measure students' critical thinking skills. Collecting data in this study conducted by observation, test in the end of the cycle, interviews, and documentation.

The results showed that POE models can increase students' critical thinking ability. It is shown by observations on the activity of learning mathematics with POE models. Additionally, the increased of critical thinking ability can also showed by the increase of the average value of the final test that given in each cycle. The average value of the final test in the first cycle was 57.4%, or belong to the criterion C +, on the second cycle increased to 71.06% belong to the criterion B, and the third cycle increased to 84.03% belonging to the A- criteria. The number of students who reached the KKM also increased by each cycle. In the first cycle, the number of students who reached the KKM is 11 people or 30.56% of the total number of students, then on the second cycle increased to 21 people, or 58.33%, and the third cycle increased again to 33 or 91.67 %.

Key Words: POE Learning Model, Critical Thinking Ability