

PENGAYAAN MATERI DAN PELATIHAN PENYELESAIAN SOAL-SOAL OLIMPIADE MATEMATIKA MENGGUNAKAN METODE TRIK DAN TIPS BAGI SISWA DAN GURU SEKOLAH MENENGAH ATAS (SMA)

by Karyati, Musthofa, Niken Asih Binatari

ABSTRACT

Directorate of Senior High School (SMA), through the Directorate General of Elementary and Intermediate Education, Ministry of Education and Culture, organizes regular National Science Olympiad (OSN) since 2002, which is consisting of 9 (nine) fields, namely: Mathematics, Physics, Chemistry, Informatics / Computer, Biology, Astronomy, Economics, Earth and Geography. As one of the educational institutions that educate teachers candidate, Department of Mathematics Education UNY has to participate in helping the problem related to the weakness of teachers in teaching mathematics to the Olympiad level, so that they can give a briefing to his students who excellent students. One of the program that can be done to resolve by giving training on Math Olympiad problems and enrichment material for selected students and teachers of senior high school.

From August 30, 2016 to September 1, 2016 a team of worshipper from the Department of Mathematics Education, UNY, has been carrying out community service in form of training materials i.e. senior high school mathematics Olympiad, in Kabupaten Bantul. This activity in collaboration with the Mathematics MGMP's Bantul. This activity was attended by 31 senior high school students from various high schools in Kabupaten Bantul. The material of these activities include: algebra, number theory, geometry, and combinatorics. The materials are given by the three presenters who was also a member of a team of servants. This activity is supported by 3 students.

This training begun with giving a pre-test. It aims to look at the initial capabilities of participants, so it can be determined, this training will start from where. Most of the trainees have never participated in the OSN. Only two students who had attended the district level OSN Furthermore, given the material the four areas mentioned earlier. The materials provided include Tips and Tricks OSN solve problems according to the field. Exercises and discussions are also used in the training. Students are directly involved in training of questions and discussion. At the end of this activity, the trainees are given a post-test. Based on the results of pre-test and post-test, the OSN training using tips and tricks method has brought a good increase of the students' ability resolving problems OSN. Nearly one hundred percent, participants get rise, although the increase is not optimal as expected.

Kata Kunci: Trick and tips, OSN, Senior High school Mathematics