

ABSTRAK

Margaretha Septyanna Tri Hartati (111414024). Analisis Kemampuan, Kreativitas, dan Kesulitan Siswa-Siswi Kelas XA SMA BOPKRI BANGUNTAPAN dalam Mengerjakan Soal Trigonometri Tipe Open-Ended. Skripsi, Program Studi Pendidikan Matematika, Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sanata Dharma, Yogyakarta, 2015.

Soal bertipe *Open-Ended* memberikan berbagai multi solusi benar sehingga kemampuan dan kreativitas siswa-siswi dapat ditingkatkan melalui pemberian soal tersebut. Tujuan dari penelitian ini adalah untuk mendeskripsikan kemampuan, kreativitas, dan kesulitan siswa-siswi dalam mengerjakan soal trigonometri tipe *Open-Ended*.

Penelitian ini merupakan penelitian deskriptif kualitatif dibantu dengan data kuantitatif. Subjek penelitian ini adalah siswa-siswi kelas XA SMA BOPKRI BANGUNTAPAN. Data diperoleh dari hasil tes tertulis, hasil wawancara siswa-siswi, dan hasil refleksi. Data-data tersebut akan membantu peneliti dalam menyimpulkan hasil penelitian. Tahap-tahap yang digunakan dalam menganalisis data, yaitu tahap reduksi data, tahap penyajian data, dan tahap *conclusion drawing*.

Berdasarkan analisis, level kemampuan siswa-siswi mencapai level *multi-structural* sebesar 21,43 % sebanyak 3 siswa dan level *relational* sebesar 78,57 % sebanyak 11 siswa. Kategori kreativitas siswa-siswi ada empat kategori yang memenuhi, yaitu tidak kreatif sebesar 42,86 % sebanyak 6 siswa, kurang kreatif sebesar 35,71 % sebanyak 5 siswa, cukup kreatif sebesar 14,29 % sebanyak 2 siswa dan kreatif sebesar 7,14 % sebanyak 1 siswa. Jenis kesulitan yang dialami siswa berupa C1, C2, C3, C4, C5, dan C6 dengan komponen kesulitannya adalah perhatian, mengingat, persepsi, berpikir, dan bahasa.

Kata-kata kunci: Kemampuan, Kreativitas, Kesulitan, Trigonometri, Soal tipe *Open-Ended*

ABSTRACT

Margaretha Septyanna Tri Hartati (111414024). *Analysis of Ability, Creativity, and Difficulties Grade XA Students at SMA BOPKRI BANGUNTAPAN in Trigonometry Solving Open-Ended Type.* Thesis, Mathematics Education Study Program, Mathematics and Science Education Departemen, Faculty of Teacher Training and Education, Sanata Dharma University, Yogyakarta, 2015.

The Open-Ended type delivers varieties of true multi solutions so that the skills and creativity of the students can be improved through the problems given. The goal of this research is to describe the ability, creativity, and difficulties of the students intrigonometry solving Open-Ended type.

This research is a descriptive-qualitative research supported with quantitative data. The subjects of this research weregrade XA students of SMA BOPKRI BANGUNTAPAN. The data is obtained from the written test result, interview to the students result, and reflection result. Those data will help the researcher in concluding the research result. The steps used in analyzing the data are the data reduction step, data presentation, and conclusion drawing step.

Based on the analysis, the students' ability level reaches multi-structural level for 21,43% for 3 students, and relational level for 78,57% for 11 students. There are 4 students' creativity category which are not enough, which are not being creative for 42,86% for 6 students, less creative for 35,71% for 5 students, creative enough for 14,29% for 2 students, and creative for 7,14% for 1 student. The difficulty type experienced by the students are in the form of C1, C2, C3, C4, C5, and C6 with the difficulty components of attention, memorizing, thinking, and language.

Keywords: Ability, Creativity, Difficulty, Trigonometry, Problem Solving Open Ended type.