

ABSTRAK

Irin Irawati Sirait. 2014. *Analisis Kesulitan Belajar Siswa pada Pokok Bahasan Identitas Trigonometri Kelas X-2 SMA Negeri 7 Yogyakarta*. Skripsi, Program Studi Pendidikan Matematika, Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sanata Dharma.

Penelitian dalam skripsi ini bertujuan untuk mengetahui jenis-jenis kesulitan yang dihadapi siswa pada pokok bahasan identitas Trigonometri dan faktor-faktor penyebab kesulitan yang dialami siswa tersebut. Metode yang digunakan dalam penelitian ini adalah deskriptif kualitatif. Berdasarkan data tersebut diungkap kesulitan siswa dalam menyelesaikan soal-soal identitas Trigonometri. Akan tetapi, pendekatan kuantitatif juga digunakan sebagai pendukung, misalnya dalam mengidentifikasi siswa yang mengalami kesulitan belajar. Subyek dari penelitian ini adalah siswa kelas X-2 yang mengalami kesulitan belajar dan obyeknya adalah kesulitan-kesulitan yang dialami oleh siswa dalam mempelajari identitas Trigonometri yang didasarkan pada kesalahan-kesalahan yang dilakukan oleh siswa pada saat mengerjakan tes prestasi belajar. Pengumpulan data berlangsung dari bulan Maret-April 2014 di SMA Negeri 7 Yogyakarta. Pengumpulan data dalam penelitian ini diperoleh dengan cara tes prestasi belajar yang digunakan juga sebagai tes diagnostik dan wawancara dengan siswa.

Hasil penelitian adalah jenis-jenis kesulitan belajar yang dihadapi siswa pada pokok bahasan identitas Trigonometri meliputi : kesulitan dalam memahami soal, kesulitan dalam memahami materi identitas Trigonometri, kesulitan dalam mengingat rumus identitas Trigonometri, kesulitan dalam memanipulasi aljabar bentuk Trigonometri, kesulitan dalam operasi perkalian bentuk Trigonometri, kesulitan dalam merasionalkan bentuk Trigonometri dan kesulitan dalam menentukan besar sudut yang nilai sinusnya diketahui. Selain itu, faktor-faktor penyebab siswa-siswa mengalami kesulitan belajar pada pokok bahasan identitas Trigonometri adalah siswa yang kurang aktif bertanya, siswa yang kurang memperhatikan guru, materi yang dianggap sulit, cara belajar siswa, lupa rumus yang akan digunakan untuk menyelesaikan soal, kurang teliti dalam menyelesaikan soal

Kata kunci : *jenis-jenis kesulitan belajar, identitas trigonometri, faktor-faktor penyebab kesulitan belajar*

ABSTRACT

Irin Irawati Sirait. 2014. *Analysis of Students' Learning Difficulties on the Topic of Trigonometric Identities of Class X-2 at SMAN 7 Yogyakarta.* Undergraduate Thesis, Mathematics Education Study Program, Department of Mathematics and Science Education, Faculty of Teachers Training and Education, Sanata Dharma University.

The research for this thesis aimed to determine the kinds of difficulties faced by the students on the topic of Trigonometric Identities and the factors that cause the difficulties experienced by the students. The method used in this research was qualitative-descriptive. That is, students' difficulties in completing the questions Trigonometric Identities could be revealed by using qualitative data. However, quantitative approach was also used as a support, for example in identifying the students that had learning difficulties. The subjects of this study were the students of class X-2 that had learning difficulties and its object was the set of difficulties experienced by students in the study of Trigonometric Identities based on the errors made by the students on the learning achievement test. The data collection took place from March-April 2014 in SMAN 7 Yogyakarta. Data collection in this study was conducted by means of an achievement test that was also used as a diagnostic test and interviews with the students.

The results of research were the kinds of learning difficulties faced by students on the topic of Trigonometric Identities that include difficulty in understanding questions, difficulty in understanding the material of Trigonometric Identities, difficulty in remembering the formulas that can be used to prove Trigonometric Identities, difficulties in manipulating trigonometric materials in algebraic form, difficulties in the form of trigonometric multiplication operations, difficulties in rationalizing the form of trigonometric and difficulty in determining the angle when its sine is given. The factors that cause students' difficulties in learning on the topic of Trigonometric Identities were as follows : the students were not so active to ask questions , the students didn't pay attention to the teacher, the material was considered difficult, the student forgot the formula needed to solve the problem, the students were not so careful in solving the problems (in this case, proving Trigonometric Identities)

Keywords: *types of learning difficulties, trigonometric identities, the factors that cause learning difficulties*