

ABSTRAK

Andriana, 2015. *Analisis Kemampuan Penalaran Siswa Dalam Menyelesaikan Soal Program Linear (Suatu Penelitian Di SMA Negeri 1 Telaga).* **Skripsi.** Gorontalo. Jurusan Matematika Prodi Pendidikan Matematika. Fakultas Matematika dan Ilmu Pengetahuan Alam. Universitas Negeri Gorontalo.

Pembimbing : (1) **Drs. Perry Zakaria M.Pd,** (2) **Nursia Bito, S.Pd, M.Pd**

Penelitian ini merupakan penelitian deskriptif dengan pendekatan kualitatif yang bertujuan untuk menganalisis atau menggambarkan kemampuan penalaran pada materi Program Linear siswa kelas XI SMA. Indikator yang digunakan untuk menggambarkan kemampuan penalaran siswa antara lain (1) Kemampuan melakukan manipulasi matematika, (2) Kemampuan menyajikan pernyataan matematika secara tertulis dan gambar, (3) Kemampuan menarik kesimpulan dari pernyataan, dan (4) Memperkirakan jawaban dan proses solusi. Teknik pengumpulan data terdiri dari observasi, tes tertulis, dan wawancara untuk memperdalam informasi mengenai kemampuan penalaran siswa. Subjek penelitian adalah siswa kelas XI IPA-3 SMA Negeri 1 Telaga yang telah mempelajari materi program linear pada semester ganjil pada tahun ajaran 2014. Sedangkan teknik analisis data yang digunakan dalam penelitian ini meliputi reduksi data, penyajian data, dan penarikan kesimpulan/ verifikasi. Berdasarkan analisis data diperoleh hasil bahwa kemampuan penalaran matematika siswa kelas XI IPA-3 SMA Negeri 1 telaga pada materi program linear tergolong sedang.

Kata kunci : *Kemampuan Penalaran, Kemampuan Menyelesaikan soal, Program Linear*

ABSTRACT

Andriana. 2015. An Analysis of Intellectual Ability of Students in Finishing Problem of Linear Program (A Research Conducted in SMAN 1 Telaga). **Skripsi.** Gorontalo. Mathematic Department. Faculty of Mathematical and Natural Science. State University of Gorontalo.

Advisors : **(1) Drs. Perry Zakaria M.Pd, (2) Nursia Bito, S.Pd, M.Pd**

This research is a descriptive research that is used qualitative approach. The objective of this research is to analyze descriptively the intellectual ability of students eleven grade SMAN 1 Telaga. The indicators which applied to describe intellectual ability of the students are: (1) ability in work mathematics, (2) ability in presenting mathematics in written expression and picture, (3) ability in create conclusion based on the statements, (4) make estimation about the answer and the process of clarification. The subjects of this research were students eleven three grade SMAN 1 Telaga in field of science who has been passed material of linear program in half semester 2014. Additionally, techniques of collecting the data of this research are observation, written test, and interview in order to give information of intellectual ability of the students more clearly. Meanwhile, in analyzing the data the researcher used some steps such as: (1) data reduction, (2) data presentation, (3) create a conclusion or verification. Based on analyzing the data the result of this research proved that intellectual ability of students eleven three grade SMAN 1 Telaga in field of science in studied linear program they are have classified to average class.

Keywords: *Intellectual Ability, Intellectual Finishing Problem, Linear Program*