

ABSTRAK

Penelitian dengan Judul kemampuan siswa menentukan turunan fungsi aljabar menggunakan model pembelajaran kooperatif tipe *Probing Prompting* di kelas XI MIPA SMA Negeri 1 Tigabinanga Tahun Pelajaran 2018/2019 didasari atas siswa sulit menurunkan turunan yang berbentuk pangkat pecahan, siswa sulit mengoperasikan bentuk akar, siswa sulit dalam penyelesaian perkalian dua suku

Jenis penelitian adalah *quasi eksperimen*. Populasi dalam penelitian ini yaitu seluruh siswa kelas XI MIPA SMA Negeri 1 Tigabinanga Tahun Pelajaran 2018/2019 sebanyak 5 kelas dengan jumlah siswa 163 orang. Sampel penelitian diambil sebanyak dua kelas dari 5 yaitu kelas XI MIPA 4 dan XI MIPA 5 SMA Negeri 1 Tigabinanga. Dua kelas tersebut memiliki kemampuan yang setara atau tanpa ada kelas unggulan. Sesuai karakteristik populasi dalam penelitian ini tidak memungkinkan pengambilan sampel dilakukan secara pengacakan individu maka pengambilan sampel dilakukan dengan *cluster random sampling*.

Berdasarkan analisis data dan pembahasan hasil penelitian yang dilaksanakan di kelas XI MIPA SMA Negeri 1 Tigabinanga Tahun Pelajaran 2018/2019 dapat disimpulkan bahwa kemampuan siswa menentukan turunan fungsi aljabar dengan menggunakan model pembelajaran kooperatif tipe *Probing Prompting* mendapat predikat baik, kemampuan siswa menentukan turunan fungsi aljabar dengan menggunakan pembelajaran konvensional mendapat predikat cukup, maka Kemampuan siswa menentukan turunan fungsi aljabar dengan menggunakan model pembelajaran kooperatif tipe *Probing Prompting* lebih baik daripada kemampuan siswa dengan pembelajaran konvensional di kelas XI MIPA SMA Negeri 1 Tigabinanga Tahun Pelajaran 2018/2019.

Kata kunci: Kemampuan Siswa, Model Pembelajaran *Probing Prompting*, Turunan Fungsi Aljabar

ABSTRACT

The title of the research is the ability of students to determine the derivative of the algebraic function using the type of Probing Prompting cooperative learning model in class XI MIPA SMA 1 Tigabinanga Academic Year 2018/2019 based on students having difficulty reducing derivatives in the form of fractions, students having difficulty operating the roots, students having difficulty completing multiplication of two tribes

This type of research is quasi-experimental. The population in this study were all students of class XI MIPA SMA 1 Tigabinanga 2018/2019 Academic Year as many as 5 classes with a total of 163 students. The study sample was taken as many as two classes of 5 namely class XI MIPA 4 and XI MIPA 5 SMA 1 Tigabinanga. The two classes have equal or no superior skills. According to the population characteristics in this study, it is not possible to take samples by randomizing individuals, so sampling is done by cluster random sampling.

Based on data analysis and discussion of the results of research conducted in class XI MIPA 1 Tigabinanga High School 2018/2019 Academic Year it can be concluded that the ability of students to determine the derivative of algebraic functions using the type of cooperative learning model Probing Prompting gets a good predicate, the ability of students to determine the derivative of algebraic functions with using conventional learning to get enough predicate, the ability of students to determine the derivative of algebraic functions by using the type of cooperative learning model Probing Prompting is better than the ability of students with conventional learning in class XI MIPA SMA 1 Tigabinanga Academic Year 2018/2019.

Keywords: Student Ability, Probing Prompting Learning Model, Derived Algebraic Function

