

ABSTRAK

Marlina Abd. Gani 2024. “Penerapan Model *Problem Solving* Dalam Peningkatan Kemampuan Berpikir Reflektif Matematis Siswa Berdasarkan Minat Belajar Siswa Pada Materi Program Linear” (Suatu Penelitian Pada Siswa Kelas XI IPA-3 SMA Negeri 5 Kota Ternate Tahun Ajaran 2022/2023) Di Bawah Bimbingan **Dr. Ida Kurnia Waliyanti S.Si.,M.Sc dan Nurma Angkotasari S.Pd., M.Pd.**

Penelitian eksperimen ini bertujuan untuk mengetahui 1) Kemampuan berpikir reflektif matematis berdasarkan minat belajar siswa setelah diterapkan model *problem solving* pada materi program linear. 2) Peningkatan kemampuan berpikir reflektif matematis belajar siswa setelah diterapkan model *problem solving* pada materi program linear. 3) Penerapan model *problem solving* dapat meningkatkan kemampuan berpikir reflektif matematis dan minat belajar siswa pada materi program linear

Desain penelitian ini menggunakan *one grup pretest posttest*. Sampel pada penelitian ini yaitu siswa kelas XI IPA-3 SMA Negeri 5 Kota Ternate Tahun Ajaran 2022/2023. Teknik pengumpulan data menggunakan instrumen tes dan non-tes (angket). Sedangkan teknik analisis data menggunakan analisis deskriptif dan analisis inferensial.

Hasil penelitian ini menunjukkan bahwa 1)kemampuan berpikir reflektif matematis siswa berdasarkan minat belajar matematis siswa yaitu, a)Siswa dengan kemampuan berpikir reflektif matematis kategori tinggi ada 20 siswa, dengan 17 siswa memiliki minat belajar kategori tinggi dan 3 siswa dalam kategori sedang. b)Siswa dengan kemampuan berpikir reflektif matematis kategori sedang ada 10 siswa, dengan 8 siswa memiliki minat belajar kategori tinggi dan 2 siswa kategori sedang. 2)Terdapat peningkatan kemampuan berpikir reflektif matematis siswa setelah diterapkan model pembelajaran *problem solving* pada materi program linear, dan 3)Peningkatan kemampuan berpikir reflektif matematis siswa setelah diterapkan model pembelajaran *problem solving* pada materi program linear dalam kategori sedang

Kata kunci: *Problem Solving, Berpikir Reflektif Matematis, Minat Belajar, Program Linear*

ABSTRACT

Marlina Abd. Gani 2024. "Application of the Problem Solving Model in Improving Students' Mathematical Reflective Thinking Ability Based on Students' Learning Interests in Linear Program Material" (A Research on Students of Class XI IPA-3 SMA Negeri 5 Kota Ternate Year 2022/2023) Under the Guidance of **Dr. Ida Kurnia Waliyanti S.Si.,M.Sc and Nurma Angkotasari S.Pd., M.Pd.**

This experimental research aims to determine 1) Mathematical reflective thinking abilities based on students' learning interests after applying the problem solving model to linear programming material. 2) Increasing students' mathematical reflective thinking abilities after applying the problem solving model to linear programming material. 3) The application of the problem solving model can improve students' mathematical reflective thinking skills and interest in learning about linear programming material

This research design uses one group pretest posttest. The sample in this study was students in class XI IPA-3 of SMA Negeri 5 Ternate City for the 2022/2023 academic year. Data collection techniques use test and non-test instruments (questionnaires). Meanwhile, data analysis techniques use descriptive analysis and inferential analysis

The results of this research show that 1) students' mathematical reflective thinking abilities are based on students' mathematical learning interest, namely, a) There are 20 students with high mathematical reflective thinking abilities, with 17 students having a high category of learning interest and 3 students in the medium category. b) There are 10 students with mathematical reflective thinking abilities in the medium category, with 8 students having a high category of interest in learning and 2 students in the medium category. 2) There is an increase in students' mathematical reflective thinking abilities after applying the problem solving learning model to linear programming material, and 3) There is an increase in students' mathematical reflective thinking abilities after applying the problem solving learning model to linear programming material in the medium category

Kata kunci: *Problem Solving, Mathematical Reflective Thinking, Interest in Learning, Linear Programming*