

ABSTRAK

Christhoper Parhusip. (2025). Kemampuan Representasi Matematis Siswa Dalam Menyelesaikan Soal Barisan dan Deret Berorientasi HOTS Ditinjau dari *Self Efficacy*. Skripsi. Tanjungpinang: Program Studi Pendidikan Matematika, Fakultas Keguruan dan Ilmu Pendidikan Matematika, Universitas Maritim Raja Ali Haji. Pembimbing I: Dr. Desi Rahmatina, S.Pd., M.Sc. Pembimbing II: Dr. Nur Izzati, S.Pd., M.Si.

Kata Kunci: Kemampuan Representasi Matematis, Barisan dan Deret, HOTS, *Self Efficacy*

Kemampuan representasi matematis merupakan aspek penting dalam pembelajaran matematika karena mencerminkan bagaimana siswa memahami, mengolah, dan mengomunikasikan konsep matematika dalam berbagai bentuk. Penelitian ini bertujuan untuk mendeskripsikan kemampuan representasi matematis siswa ditinjau dari *self efficacy* dalam menyelesaikan soal barisan dan deret berorientasi HOTS. Penelitian menggunakan pendekatan kualitatif deskriptif dengan subjek siswa kelas XI-A1 SMAN 8 Batam. Mengumpulkan data penelitian melalui tes kemampuan representasi matematis, skala *self efficacy*, dan wawancara. Hasil penelitian menunjukkan tingkat *self efficacy* terdistribusi dalam tiga kategori: 18% tinggi, 64% sedang, dan 18% rendah. Siswa dengan *self efficacy* tinggi mampu memenuhi seluruh indikator representasi matematis, yakni verbal, simbolik, dan visual. Siswa dengan *self efficacy* sedang menunjukkan memenuhi indikator verbal dan simbolik, namun belum mampu memenuhi indikator visual. Sementara itu, siswa dengan *self efficacy* rendah belum memenuhi ketiga indikator representasi matematis secara optimal. Penelitian menyimpulkan adanya hubungan antara *self efficacy* dan kemampuan representasi matematis.

ABSTRACT

Christhoper Parhusip. (2025). *Students' Mathematical Representation Ability in Solving HOTS-Oriented Rows and Rows Problems in View of Self-Efficacy*. Thesis. Tanjungpinang: Mathematics Education Study Program, Faculty of Teacher Training and Mathematics Education, Raja Ali Haji Maritime University. Advisor I: Dr. Desi Rahmatina, S.Pd., M.Sc. Advisor II: Dr. Nur Izzati, S.Pd., M.Si.

Keywords: *Mathematical Representation Ability, Rows and Rows, HOTS, Self-Efficacy*

Mathematical representation ability is an important aspect in learning mathematics because it reflects how students understand, process, and communicate mathematical concepts in various forms. This study aims to describe students' mathematical representation ability in terms of self-efficacy in solving HOTS-oriented sequence and row problems. The research used a descriptive qualitative approach with the subject of students of class XI-A1 SMAN 8 Batam. Collecting research data through a mathematical representation ability test, a self-efficacy scale, and an interview. The results showed that the level of self-efficacy was distributed in three categories: 18% high, 64% medium, and 18% low. Students with high self-efficacy were able to fulfill all indicators of mathematical representation, namely verbal, symbolic, and visual. Students with moderate self-efficacy showed that they fulfill verbal and symbolic indicators, but have not been able to fulfill visual indicators. Meanwhile, students with low self-efficacy have not fulfilled all three mathematical representation indicators optimally. The study concluded that there is a relationship between self-efficacy and mathematical representation ability.