

ABSTRAK

Fauzul Idhi Sulistomo. 221414045. 2025. Analisis Kemampuan Numerasi Siswa Kelas X Setelah Mengalami Pembelajaran Dengan Menggunakan Pendekatan Pendidikan Matematika Realistik (PMR). Skripsi. Program Studi Pendidikan Matematika. Universitas Sanata Dharma.

Penelitian ini diawali dengan penggalan masalah pada materi perbandingan trigonometri, dan ditemukan berbagai permasalahan seperti, (1) siswa kesulitan dalam merumuskan masalah, (2) siswa kesulitan dalam membuat rencana penyelesaian, dan (3) siswa kesulitan dalam mengimplementasikan rencana penyelesaian. Penelitian ini bertujuan untuk (1) mendeskripsikan bagaimana proses merencanakan dan mengimplementasikan pendekatan Pendidikan Matematika Realistik (PMR) untuk membelajarkan materi perbandingan Trigonometri bagi siswa kelas X E 6 di SMA Negeri 8 Yogyakarta, (2) mendeskripsikan bagaimana kemampuan numerasi matematis siswa kelas X E 6 di SMA Negeri 8 Yogyakarta setelah mereka mengikuti pembelajaran untuk materi Trigonometri dengan menggunakan pendekatan Pendidikan Matematika Realistik (PMR).

Penelitian ini merupakan penelitian kualitatif dengan subjek penelitian yaitu siswa kelas X E 6 pada tahun ajaran 2025/2026. Metode pengumpulan data yang digunakan yaitu, catatan lapangan, dokumen, tes dan wawancara, dengan instrument yang digunakan berupa lembar catatan lapangan, dokumentasi, instrumen tes dan instrumen wawancara. Validasi data dilakukan dengan menggunakan triangulasi teknik, sedangkan proses analisis data mencakup reduksi data, penyajian data, dan penarikan kesimpulan.

Berdasarkan hasil tes tertulis untuk 35 siswa dapat disimpulkan bahwa kemampuan numerasi yang masih perlu dikembangkan adalah kemampuan siswa dalam mengimplementasikan rencana penyelesaian masalah di level kemampuan menalar (*reasoning*). Berdasarkan hasil tes tertulis dan wawancara enam subjek, dapat disimpulkan bahwa kemampuan numerasi yang masih perlu dikembangkan adalah kemampuan siswa dalam menuliskan rencana penyelesaian masalah di level kemampuan menalar (*reasoning*).

Kata Kunci: Pendidikan Matematika Realistik (PMR), kemampuan numerasi, perbandingan trigonometri di segitiga siku-siku, dan perbandingan trigonometri di lingkaran satuan.

ABSTRACT

Fauzul Idhi Sulistomo. 221414045. 2025. Analysis of Grade X Students' Numeracy Skills After Learning Using the Realistic Mathematics Education (RME) Approach. Undergraduate Thesis. Mathematics Education Study Program. Sanata Dharma University.

This study began with an exploration of problems in trigonometric material, and various problems were found, such as (1) students had difficulty formulating problems, (2) students had difficulty making plans for solving problems, and (3) students had difficulty implementing plans for solving problems. This study aims to describe (1) the process of planning and implementing the Realistic Mathematics Education (RME) approach to teach trigonometric ratios to X E 6 students at SMA Negeri 8 Yogyakarta, and (2) the mathematical numeracy skills of students in class X E 6 at SMA Negeri 8 Yogyakarta after they participated in learning Trigonometry material using the Realistic Mathematics Education (RME) approach.

This research is qualitative research with the research subjects being grade X E 6 students in the 2025/2026 academic year. The data collection methods used were field note, document, test, and interview, with the instruments used being field note sheets, documentation, a test instrument, and an interview sheet. Data validation was carried out using triangulation techniques, while the data analysis process included reducing data, presenting data and drawing conclusion.

Based on the results of a written test for 35 students, it could be concluded that the numeracy skills that still need to be developed is the students' ability to implement problem-solving plans at the reasoning level. Based on the results of the written test and the interview with six subjects, it could be concluded that the numeracy skills that still need to be developed is the students' ability to write down problem-solving plans at the reasoning level.

Keywords: *Realistic Mathematics Education (RME), numeracy skills, trigonometric in right triangles, and trigonometric in unit circles.*