

# KEMAMPUAN MENGANALISIS KONSEP PADA MATERI BARISAN DAN DERET SISWA KELAS XI SMA NEGERI 1 SINGARAJA

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## ABSTRAK

Kurangnya kemampuan menganalisis konsep matematika siswa menyebabkan tujuan pembelajaran yang ditetapkan tidak dapat dicapai secara optimal. Tujuan penelitian ini adalah untuk mendeskripsikan kemampuan menganalisis konsep matematika siswa dan persentase kesalahan siswa dalam menyelesaikan soal barisan dan deret aritmatika. Penelitian ini merupakan jenis penelitian deskriptif kualitatif. Subjek penelitian ini adalah enam orang siswa kelas XI SMA Negeri 1 Singaraja pada semester genap tahun ajaran 2021/2022. Data penelitian ini adalah kemampuan menganalisis konsep matematika yang dikumpulkan menggunakan tes. Tes disusun berdasarkan dimensi kognitif pada jenjang menganalisis (C4) sesuai Taksonomi Bloom Revisi. Data dianalisis secara deskriptif dan kualitatif. Analisis kualitatif dilakukan melalui tahap reduksi data, penyajian data, dan verifikasi data. Hasil penelitian adalah (1) rata-rata persentase kemampuan menganalisis konsep matematika siswa pada materi barisan dan deret kelas XI SMA Negeri 1 Singaraja sebesar 58,61%, tergolong sedang; (2) kesalahan siswa dalam menyelesaikan soal kemampuan menganalisis konsep sesuai indikator Taksonomi Bloom revisi meliputi kemampuan membedakan, mengorganisasi, dan mengatribusikan. Persentase ketiga indikator tersebut berturut-turut: membedakan sebesar 66,67% tergolong tinggi, mengorganisasi sebesar 83,33% tergolong sangat tinggi, dan mengatribusikan sebesar 88,24% tergolong sangat tinggi.

**Kata kunci:** kemampuan menganalisis konsep, materi barisan dan deret, taksonomi bloom revisi.

**ABILITY TO ANALYZE MATHEMATICAL CONCEPTS FOR CLASS IX  
STUDENTS OF SMA NEGERI 1 SINGARAJA**

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**ABSTRACT**

*The lack of ability to analyze students' mathematical concepts causes the learning objectives that have been set cannot be achieved optimally. The purpose of this study was to describe the ability to analyze students' mathematical concepts and the percentage of students' errors in solving arithmetic sequences and series problems. This research is a type of qualitative descriptive research. The subjects of this study were six students of class XI SMA Negeri 1 Singaraja in the even semester of the 2021/2022 academic year. The data of this study is the ability to analyze mathematical concepts collected using tests. The test is arranged based on the cognitive dimension at the level of analyzing (C4) according to the Revised Bloom's Taxonomy. Data were analyzed descriptively and qualitatively. Qualitative analysis was carried out through the stages of data reduction, data presentation, and data verification. The results of the study were (1) the average percentage of students' ability to analyze mathematical concepts in the material of class XI SMA Negeri 1 Singaraja was 58.61%, classified as moderate; (2) students' mistakes in solving the problem of the ability to analyze concepts according to the indicators of the revised Bloom's Taxonomy include the ability to distinguish, organize, and attribute. The percentages of the three indicators are in a row: differentiating 66.67% is high, organizing 83.33% is very high, and attributing 88.24% is very high.*

**Keywords:** *ability to analyze concepts, the material of sequences and series, revised bloom taxonomy.*