

ABSTRAK

Mita Suryani Daulay, NIM 4193121045 (2023). Pengembangan Instrumen Tes Kemampuan Berpikir Kritis Pada Materi Gerak Parabola Di SMA Swasta Prayatna Medan.

Penelitian ini bertujuan untuk mengembangkan instrumen tes kemampuan berpikir kritis siswa pada materi gerak parabola di SMA Swasta Prayatna Medan yang telah memenuhi kriteria pengujian kelayakan instrumen meliputi validitas isi, validitas butir soal, uji reliabilitas, tingkat kesukaran, daya beda, dan uji respon siswa. Jenis penelitian yang digunakan yaitu penelitian dan pengembangan menggunakan tahapan penelitian Borg and Gall dengan desain pengembangan ADDIE (*Analysis, Design, Development, Implementation dan Evaluation*). Karakteristik item tes dianalisis secara kuantitatif berdasarkan hasil validasi ahli dan uji coba pada 30 siswa kelas X MIPA di SMA Swasta Prayatna Medan. Hasil uji validasi ahli diperoleh instrumen tes valid pada aspek isi, konstruksi dan bahasa. Pada uji validitas butir soal diperoleh 91,6% item valid. Pada uji reliabilitas diperoleh nilai sebesar 0,623 dengan kategori reliabilitas tinggi. Untuk tingkat kesukaran diperoleh nilai dengan rentang 0,467-0,700 dengan kriteria 12 butir soal dinyatakan memiliki tingkat kesukaran sedang. Uji daya beda memperoleh nilai dengan rentang 0,125-0,750 dengan kriteria 2 butir soal dinyatakan baik sekali, 8 butir soal dinyatakan baik, 1 butir soal dinyatakan cukup dan 1 butir soal dinyatakan jelek. Sedangkan untuk uji respon siswa diperoleh persentase sebesar 81,2% dengan kategori sangat baik. Kesimpulan dari penelitian pengembangan yang telah dilakukan adalah instrumen tes kemampuan berpikir kritis siswa pada gerak parabola layak untuk digunakan.

Kata kunci : Instrumen tes, berpikir kritis, gerak parabola



ABSTRACT

Mita Suryani Daulay, NIM 4193121045 (2023). Development of a Critical Thinking Ability Test Instrument on Parabolic Motion Material at Prayatna Private High School Medan.

This research aims to develop an instrument to test students' critical thinking skills on parabolic motion material at Praayatna Medan Private High School which meets the instrument feasibility testing criteria including content validity, question item validity, reliability test, level of difficulty, differentiability, and student response test. The type of research used is research and development using the Borg and Gall research stages with the ADDIE development design (Analysis, Design, Development, Implementation and Evaluation). The characteristics of the test items were analyzed quantitatively based on the results of expert validation and trials on 30 class X MIPA students at Prayatna Private High School, Medan. The expert validation test results obtained valid test instruments in the content, construction and language aspects. In the validity test of the questions, 91.6% of the items were valid. In the reliability test, a value of 0.623 was obtained in the high reliability category. For the level of difficulty, a value was obtained in the range of 0.467-0.700 with the criteria that 12 questions were declared to have a medium level of difficulty. The differential power test obtained a score in the range of 0.125-0.750 with the criteria of 2 items being declared very good, 8 items being declared good, 1 item being declared adequate and 1 item being declared poor. Meanwhile, for the student response test, the percentage obtained was 81.2% in the very good category. The conclusion from the development research that has been carried out is that the instrument for testing students' critical thinking abilities on parabolic motion is suitable for use.

Keywords : Test instrument, critical thinking, parabolic motion