

ABSTRAK

Lestari, Vivian. 2022. *Pengembangan E-LKPD Berbasis Problem Based Learning Menggunakan Live Worksheets pada Materi Turunan Fungsi Aljabar Kelas XI SMA*. Skripsi. Program Studi Pendidikan Matematika, Fakultas Keguruan dan Ilmu Pendidikan. Universitas Maritim Raja Ali Haji. Pembimbing I: Assist. Prof. Rindi Antika, M.Pd. Pembimbing II: Assist. Prof. Okta Alpindo, S.Pd., M.Pd.

Kata Kunci: E-LKPD, *Problem Based Learning*, *Live Worksheets*, dan Turunan Fungsi Aljabar.

Tujuan penelitian ini untuk menghasilkan E-LKPD berbasis *Problem Based Learning* menggunakan live worksheets pada materi Turunan Fungsi Aljabar kelas XI SMA. Jenis penelitian ini adalah *Research and Development* dengan menggunakan model ADDIE. Penelitian ini hanya sampai tahap *Development* saja dengan melakukan uji validasi dan uji praktikalitas. Instrument yang digunakan berupa angket validasi lembar instrument validasi, lembar validasi ahli, dan angket praktikalitas pendidik serta peserta didik. Data dianalisis dengan analisis data deskriptif kualitatif dan statistika deskriptif. Data yang diperoleh merupakan data kualitatif dan kemudian data diubah menjadi data kuantitatif dengan menggunakan MSR. Dari validasi ahli materi memperoleh 66,69% dengan kriteria valid dan validasi ahli media memperoleh 77,80% dengan kriteria valid. Untuk angket praktikalitas respon pendidik memperoleh sebesar 83,73% dengan kriteria sangat praktis dan angket respon peserta didik memperoleh penilaian sebesar 82,40% dengan kriteria sangat praktis.

ABSTRACT

Lestari, Vivian. 2022. *Development of Problem Based Learning-Based E-LKPD Using Live Worksheets on Derivative Materials for Class XI SMA*. Thesis. Department of Mathematics Education, Faculty of Teacher Training and Education University of Maritim Raja Ali Haji. First Advisor I: Assist. Prof. Rindi Antika, M.Pd. Second Advisor II: Assist. Prof. Okta Alpindo, S.Pd., M.Pd.

Keywords: E-LKPD, *Problem Based Learning*, *Live Worksheets*, and Derivatives Algebra Functions.

The purpose of this study was to produce an E-LKPD based on Problem Based Learning using live worksheets on the material for Derivatives of Algebraic Functions for class XI SMA. This type of research is Research and Development using the ADDIE model. This research only reached the development stage by conducting validation tests and practicality tests. The instruments used are questionnaire validation instrument validation sheets, expert validation sheets, and practicality questionnaires for educators and students. The data were analyzed by qualitative descriptive data analysis and descriptive statistics. The data obtained is qualitative data and then the data is converted into quantitative data using MSR. From the validation of material experts, it obtained 66.69% with valid criteria and media expert validation obtained 77.80% with valid criteria. For the practicality questionnaire, the teacher's response was 83.73% with very practical criteria and the student response questionnaire received an assessment of 82.40% with very practical criteria.