

ABSTRAK

Asrinto Rasid, 2024. “Keefektifan model *Problem Based Learning* (PBL) ditinjau dari kemampuan berpikir reflektif matematis dan keyakinan diri siswa dalam menyelesaikan soal sistem persamaan linear tiga variabel (SPLTV)” (suatu penelitian pada siswa kelas X SMA Negeri 8 kota Ternate tahun pelajaran 2023//2024). di bawah bimbingan **Nurma Angkotasari, S.Pd., M.Pd. dan Dr. Hasan Hamid, M.Si.**

Penelitian ini dilakukan dengan tujuan untuk mengetahui: (1) Bagaimana kemampuan berpikir reflektif matematis siswa setelah diterapkan model *Problem Based Learning* (PBL). (2) Bagaimana keyakinan diri siswa setelah diterapkan model *Problem Based Learning* (PBL). (3) Apakah model *Problem Based Learning* (PBL) efektif ditinjau dari kemampuan berpikir reflektif matematis dan keyakinan diri siswa. Jenis penelitian yang digunakan adalah jenis penelitian eksperimen. Penelitian ini dengan rancangan *two groups pretest-posttest design*, instrumen yang digunakan berupa soal tes dan angket siswa. Sampel yang diambil adalah siswa kelas X-A berjumlah 30 siswa dan kelas X-B berjumlah 30 siswa. Teknik pengumpulan data dalam penelitian ini diperoleh dengan cara melihat skor yang dipeoleh dari masing-masing kelas. Sedangkan teknik analisis data menggunakan analisis deskriptif dan analisis inferensial.

Berdasarkan hasil perhitungan tersebut kemampuan berpikir reflektif matematis pada uji normalitas tes akhir diperoleh sampel tidak berdistribusi normal, maka pengujian non parametrik yaitu uji tanda untuk mengetahui kemampuan berpikir reflektif matematis siswa pada kelas kontrol dan kelas eksperimen $Z_h = 28,03$ berarti $Z_h >$ dan H_0 ditolak H_1 diterima artinya kemampuan berpikir reflektif matematis siswa melalui model *Problem Based Learning* (PBL) efektif. Keyakinan diri siswa dalam pengujian hipotesis menggunakan uji independent sampel test, nilai $t_{hitung} = 8,575$ pada taraf signifikan 0,05, dan $dk = (n-1)$ diperoleh $t_{tabel} = 2,001$. maka $t_{hitung} > t_{tabel}$ = sehingga H_a diterima dan H_0 ditolak, artinya penerapan model *Problem Based Learning* (PBL) efektif, sehingga dapat disimpulkan bahwa penerapan model *Problem Based Learning* (PBL) efektif ditinjau dari kemampuan berpikir reflektif matematis dan keyakinan diri siswa.

Kata Kunci : *Problem Based Learning* (PBL), Berpikir Reflektif Matematis, Keyakinan Diri, Sistem Persamaan Linear Tiga Variabel (SPLTV)

ABSTRACT

Asrinto Rasid, 2024. “The effectiveness of *the Problem Based Learning* (PBL) model is reviewed from ability think reflective mathematical And confidence self student in finish question system triple linear equation variable (SPLTV)” (a study on student class X SMA Negeri 8 Ternate city lesson 2023//2024). in lower guidance **Nurma Angkotasari, S.Pd., M.Pd. And Dr. Hasan Hamid, M.Sc.**

Study This done with objective For know: (1) How ability think reflective mathematical student after *the Problem Based Learning* (PBL) model is applied. (2) How confidence self student after *the Problem Based Learning* (PBL) model is applied. (3) Is the *Problem Based Learning* (PBL) model effective reviewed from ability think reflective mathematical And confidence self student. Type research used is type study experiment. Study This with two *groups pretest - posttest* design, instruments used form question test And questionnaire student. Samples taken is student class XA has 30 students And class XB has 30 students. Technique deep data collection study This obtained with method see scored score roleh from each class. Whereas technique data analysis using analysis descriptive And analysis inferential.

Based on results calculation the ability think reflective mathematical on test normality test end obtained sample No normally distributed, then non-parametric testing that is test sign For know ability think reflective mathematical student on class control And class experiment $Z_h = 28.03$ means $Z_h >$ and H_0 rejected H_1 accepted It means ability think reflective mathematical student through an effective *Problem Based Learning* (PBL) model. Confidence self student in testing hypothesis use independent sample test, value $t_{count} = 8.575$ at level significant 0.05, and $dk = (n-1)$ is obtained $t_{table} = 2.001$. so $t_{count} > t_{table}$ = so that H_a accepted and H_0 is rejected, meaning the application of *the Problem Based Learning* (PBL) model is effective, so can concluded that effective application of *the Problem Based Learning* (PBL) model reviewed from ability think reflective mathematical And confidence self student.

Key words : *Problem Based Learning* (PBL), Thinking Reflective Mathematics, Confidence Self, System Triple Linear Equation Variable (SPLTV)