

Naronglit Chaya 2009: A Study of Mathematics Learning Achievement and Opinions on Factoring Quadratic Polynomial by Using Multi-media of Mathayomsuksa Two Students at Sriboonyanon School, Changwat Nonthaburi. Master of Arts in Teaching, Major Field: Teaching Mathematics, Department of Education. Thesis Advisor: Associate Professor Siriporn Thipkong, Ed.D. 181 pages.

The purposes of this research were 1) to study mathayomsuksa two students' mathematics learning achievement on "Factoring Quadratic Polynomial" by teaching with using multi-media and 2) to study mathayomsuksa two students' opinions toward mathematics on "Factoring Quadratic Polynomial" by teaching with using multi-media. The sample group was 31 mathayomsuksa two students of one classroom at Sriboonyanon School, Changwat Nonthaburi in the second semester of the academic year 2008 and was selected by cluster random sampling from 10 classrooms. The instruments in this research consisted of 1) multi-media on "Factoring Quadratic Polynomial", 2) mathematics learning achievement test on "Factoring Quadratic Polynomial", and 3) students' opinions questionnaire of learning activities by using multi-media. Percentage, mean, match paired t-test, and t-test were used to analyze data.

The research findings revealed that 1) the mathematics learning achievement on "Factoring Quadratic Polynomial" of mathayomsuksa two students after learning was higher than before learning at .05 level of significance and was higher than 60% at .05 level of significance and 2) almost all students expressed that teaching by using multi-media was appropriate.

---

Student's signature

---

Thesis Advisor's signature