

Pongsatorn Mahavijit 2011: Development of Courses Standards and Learning Resources of Mathematics for High School Level. Doctor of Education (Curriculum and Instruction), Major Field: Curriculum and Instruction, Department of Education. Thesis Advisor: Associate Professor Nataya Pилanthanonnd, Ph.D. 212 pages.

The main objectives of this research were to create the model of high school mathematics courses standards which are appropriate for Thailand's context and to develop the learning resources which are relevant to them. Research processes consisted of 1) Preparing for courses standards development by evaluating needs and opinions of experts about high school mathematics courses standards determination and writing patterns 2) Developing courses standards 3) Evaluating courses standards 4) Preparing for learning resources development 5) Developing learning resources and 6) Evaluating relevance of learning resources with courses standards by experts.

Sample groups of this research were 6 professionals in mathematics curriculum those were professors and academicians and 10 experts in mathematics learning resources those were professors, academicians and high school teachers. Results of the research were 1) 6 high school mathematics courses standards which are appropriate for Thailand's context were developed and divided into 4 core courses standards: Algebra, Geometry, Probability and Statistics, Pre-Calculus and 2 selected courses standards: Trigonometry, Discrete Mathematics using 2 writing styles and 2) Learning resources relevant to the courses standards were developed and categorized into 3 groups: lesson plans, media/activities and evaluating tools.

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Thesis Advisor's signature