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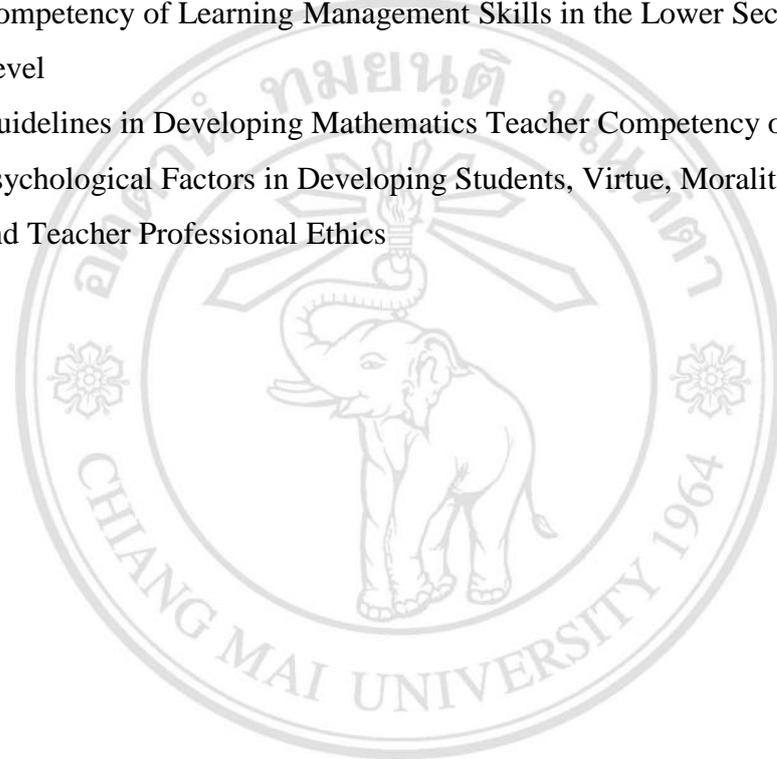
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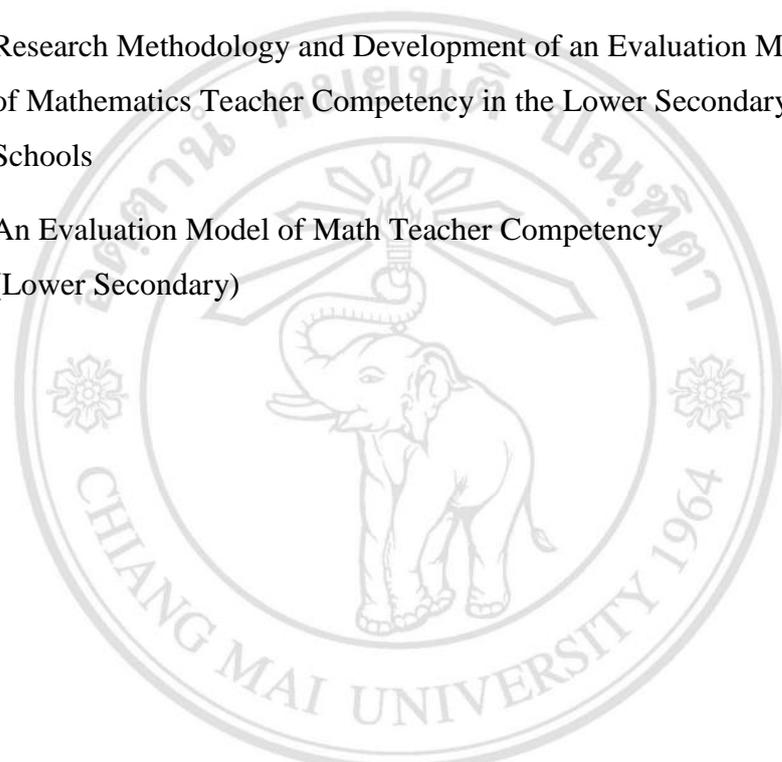
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ข้อความแห่งการริเริ่ม

- 1) วิทยานิพนธ์นี้ได้นำเสนอรูปแบบการประเมินสมรรถนะครูคณิตศาสตร์ระดับมัธยมศึกษาตอนต้น โดยพัฒนารูปแบบการประเมินจากแนวคิด ทฤษฎี งานวิจัยที่เกี่ยวข้องผ่านการวิเคราะห์องค์ประกอบและตัวบ่งชี้สมรรถนะครูคณิตศาสตร์ เพื่อพัฒนาเป็นรูปแบบการประเมินสมรรถนะครูคณิตศาสตร์ระดับมัธยมศึกษาตอนต้น ได้ทดลองใช้และศึกษาผลการใช้รูปแบบมีคุณภาพตามมาตรฐาน รวมทั้งหาแนวทางการพัฒนาเสริมสร้างสมรรถนะครูคณิตศาสตร์ระดับมัธยมศึกษาตอนต้น
- 2) ขอรับรองว่าวิทยานิพนธ์ฉบับนี้ ผู้วิจัยได้ศึกษาและได้รับคำแนะนำจากผู้ทรงคุณวุฒิตามสาขาวิชา อาจารย์ที่ปรึกษาวิทยานิพนธ์ การค้นพบนี้ได้มาจากแหล่งที่มีความน่าเชื่อถือและได้รับการยอมรับ และรับการรับรองว่าวิทยานิพนธ์ฉบับนี้ไม่ได้เป็นวิทยานิพนธ์ที่จะได้รับปริญญาในสถาบันการศึกษาอื่นหรือเพื่อวัตถุประสงค์อื่น

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STATEMENTS OF ORIGINALITY

- 1) This dissertation proposed an evaluation model of mathematics teacher competency in the lower secondary schools. The evaluation model was developed from concepts, theories, and relevant research via the analysis of elements and indicators on mathematics teacher competency so as to develop the evaluation model of mathematics teacher competency in the lower secondary schools. The model was tried out and its application results were studied on quality and standards. The guidelines of developing and enhancing mathematics teacher competency in the lower secondary schools were identified.
- 2) This dissertation was certified in that the researcher studied based on advice from connoisseurs specializing in their fields and a dissertation advisor. The research findings were gained from reliable and acceptable sources. This dissertation was also certified in that it was not conducted in order to be a fulfillment of other educational institutions or served other purposes.

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