SUMMARY OF NEW CONCLUSIONS OF PHD THESIS

Title: BUILDING THINKING CLASSROOM THROUGH TEACHING 11TH GRADE SPATIAL GEOMETRY AT UPPER SECONDARY SCHOOLS.

Speciality: Theory and Method of mathematics teaching

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Name of PhD Student: Lê Trung Tín

Advisors: Prof. PhD. Nguyễn Hữu Châu and PhD. Bùi Duy Hưng

Institutional: Hanoi National University of Education

New conclusions

1. The author finds out some basic characteristics of critical thinking, creative thinking in Math of under average, average, good and excellent students. Thereby, author affirms that the critical and creative thinking factors are not only available in excellent and good students. Each normal student can develop qualities of critical and creative thinking at different levels.

2. To develop every student's thinking at class, it is essential to build an environment that encourages and promotes thinking in the class. Thinking classroom will create such a study environment. A thinking classroom is the class where every student has the opportunities and is encouraged to develop their own critical and creative thinking appropriately in the interactive learning environment. The thesis points out some typical characteristics of the Thinking classroom through three factors: environment, teachers and students.

3. Nowadays, cultivating and developing students's critical and creative thinking at high schools have not been paid proper attention. Teachers' lesson plans only focus on solving tasks of transfering knowledge but not interested to develop students' thinking. Some teachers' activities during their teaching process also impede students' process of thinking.

4. The thesis suggests five methods of building a thinking classroom: Building the system of learning tasks and objectives and Mathematical exercises system of developing critical and creative thinking; Motivating, inspiring and stimulating students' thinking by putting the contents in different situations; Increasing the use of effective question system; Activing thinking through multi-interactive group; Training each student the ability of planning self-study, self-monitoring, evaluation and adjustment of their awareness and learning process.

Advisors		**PhD Student**
Prof. PhD. Nguyễn Hữu Châu	PhD. Bùi Duy Hưng	Lê Trung Tín