

INFORMATION ON MASTER'THESIS

1. Full name: **Vũ Thị Kim Ngân**
2. Sex: Female
3. Date of birth: 05/01/1990
4. Place of birth: Nam Dinh
5. Changes in academic process: No
6. Official thesis title:

*"Some methods for solve the system of equations
in High School's Mathematics Program"*

7. Major: Primary Mathematics Method.
8. Code: 60 46 10 13
9. Supervisors: Dr. **Phạm Văn Quốc** , HUS High school for Gifted Students, Vietnam National University, Ha Noi
10. Summary of the finding of the thesis:

System of equations is a classic content and importance of mathematics. From the beginning, the birth and development of the system of equations has imposed important, we have a strong appeal for those who love math, not only in form but also beauty secrets it brings always urges people to explore math, creative.

The problem of equations frequently appear in the exam good student, Olympic and University entrance exams, college. System of equations is considered classification problem strong students, it requires rapid treatment techniques and the most accurate. As a high school teacher, I wanted to study more deeply the system of equations in order to improve the professional service of the teaching process and fostering gifted students.

For these reasons, I choose to study the topic "Some methods of solving systems of equations in math curriculum high school" as his master thesis.

Thesis consists of an introduction, three chapters of knowledge, conclusion and list of references.

Chapter 1. Some basic knowledge

In this chapter, the author presents a systematic way the basic knowledge about the system of equations to serve for the next chapter.

Chapter 2. Some methods of solving systems of equations

In this chapter, essays given methods commonly used to solve a system of equations, namely:

- Method set hidden parts,
- Methods of analysis of human death,
- Method using constant equation,
- Methods of fun with your monotonous function,
- Another method includes: evaluation method, method of trigonometric methods using complex numbers.

For each method, the authors collected a lot of problems or from the University exam, exam National excellent students, Olympiad together with analysis and specific explanation or guidance. From there, helping students with math thinking ability and versatility during homework.

Chapter 3. A method of building a system of equations

This is the most important chapter of the thesis. In this chapter, the author gives a method of building a system of equations based on the basic knowledge of every equation, the nature of the function, the inequality and the complex number. Specifically, the third chapter includes content that:

- Establish a system of equations from the equation,
- Establish a system of equations by the method set hidden side,
- Use of a function monotonous to build a system of equations,
- Establish a system of equations by methods of assessment,
- Use complex numbers to build a system of equations.

In the method, the authors point to specific examples from the given problem Each has its analysis and commentary to help students better understand the system of equations as well as ways to build a system of equations . Thereby, helping students grasp the direction and results of problem.

Thesis "Some methods of solving systems of equations in math curriculum high school" has solved the following problems:

- The system is a method of solving systems of equations,
- Provide some construction methods, creation of a logical system of equations,
- The results of the thesis was to contribute to improving the quality of teaching and learning of mathematics in secondary schools in the current period.

August 1st 2015

Vũ Thị Kim Ngân