Algebra A – Learning Log 3

The study goal is to understand how culture influences students' mathematical conceptions and learning skills.

In this study, you will be asked to answer questions. Some of them will be mathematical questions, regarding the material of the course. In other questions you will be asked to reflect on the previous answers that you gave and about your learning process in the course.

Taking part in this study is completely voluntary. There are no right or wrong answers. The records of this study will be kept private, and will not affect your course grade. Answering the mathematical questions incorrectly will not affect your course grade.

If you decide not to take part or to skip some of the questions, it will not affect your course grade. If you decide to take part, you are free to withdraw at any time.

If you decide to participate you will benefit a **bonus of 2 points** added to your final grade (see details on the course website).

If you have any questions, please don't hesitate to contact me, at: lital.shemen@gtiit.edu.cn

Thank you for your participation.

Answer the following problem:

Prove or disprove the following claim:

Let V be a vector space over a field \mathbb{F} , and let U, W be vector subspaces of V. If $U \cup W$ is a vector subspace of V then $U \subseteq W$ or $W \subseteq U$.

Answer the following questions:

	te the d - very ea	v		· ·	roblem.					
	1	2	3	4	5	6	7	8	9	
2. How confident are you that you answered correctly? (1 - not confident at all, 9 - very confident)										
	1	2	3	4	5	6	7	8	9	

If you think you were right, what helped you answer correctly? If you think you were wrong, what could have helped you answer correctly?

3. Do you agree with the following statements? (1 - don't agree at all, 9 - strongly agree)

(a) I understand the problem's instructions and what it means to write a formal solution.

	1	2	3	4	5	6	7	8	9		
(b) I intuitively understand what is the solution to the problem.											
	1	2	3	4	5	6	7	8	9		
(c) Intuition is important in order to be good in mathematics.											
	1	2	3	4	5	6	7	8	9		

4. What are the differences between learning mathematics in GTIIT and learning mathematics in high school? What do you do in order to overcome these differences?