

Most frequent errors and misconceptions of first year math students in high school problems

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A four-year study that includes first year math students at PMF, UKIM - Skopje, is made. The students got an anonymous test containing six different assignments of logical type, linear equations with parameter and systems of two linear equations with two variables containing parameters. We consider their results from the application of prior math knowledge at the test, we classify the most common errors when solving equations and systems of equations with parameters, and look into the misconceptions that arise when adopting the notions of ordering relations.