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Douglas Magomo* (doug.magomo@gmail.com), Department of Mathematics, 8099 College Pkwy, Fort Myers, FL 33919. *Learning From Students' Errors-College Algebra and Calculus Examples*. Preliminary report.

Learning mathematics is a spiral process where students use what they already know to develop further understanding of concepts and ideas. New ideas of methods for solving mathematical problems are not easily discovered. Instructors engage students with conventional methods and procedures or algorithms that help solve these problems. In the process, students make a lot of mistakes. Interestingly, some of the mistakes students make, if closely reviewed, can lead to new way of solving these problems. In this article we look at a few examples on how students' errors lead to the desired solutions. (Received August 16, 2018)