

1077-F1-1813

Sang-Gu Lee* (sglee@skku.edu), Dept. of Mathematics, Sungkyunkwan University, 300 Cheoncheon-dong, Jangan-gu, Suwon, Gyeonggi 440-746, South Korea. *Mobile Math Applications for the Second Course of Linear Algebra.*

We show that the Smartphone and Sage-Math have features that can be effectively used for learning of the second course of linear algebra. We provide mobile contents, which contain lecture notes, video lectures, solutions of problems, computational tools and social networking features for the second course of linear algebra. Now students can have a whole process of learning mathematics in their hand. This has the potential to change in an innovative and effective manner the teaching of linear algebra. In this talk, we present this new application and contents. Further, we discuss how those changes may affect the students' future learning of the second course of linear algebra. (Received September 21, 2011)