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2211 Riverside Ave, Minneapolis, MN 55454. *Ancient Greek Linear Algebra?* Preliminary report.

In around 100 CE, Theon of Smyrna proposed an iterative method which allows for an approximation of $\sqrt{2}$. This method can be interpreted in a matrix form, rather like a Markov chain. After describing the original method and why it works, I will discuss how this could be extended to approximate other square roots. We'll also see how this could make an interesting project for Linear Algebra students. (Received September 15, 2015)