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Gordon A Swain* (gswain@ashland.edu), 401 College Ave., Ashland, OH 44805. *Changing Proofs for the Quadrature of the Parabola, II*. Preliminary report.

Since first solved by Archimedes, the problem of finding the area between a parabola and a line has been revisited by many mathematicians. With an emphasis on the mathematical knowledge and tools of each era, we consider additional proofs of al-Mutaman, Fermat, Percival Frost (after Newton), and the author. (Received July 26, 2005)