1100-05-49   **George E Andrews*** (`gea1@psu.edu`), Department of Mathematics, 306 McAllister Bldg., University Park, PA 16802. *The seventh order mock theta functions revisited.*

In 1986, Hecke type expansions (involving indefinite quadratic forms) were found for the fifth and seventh order mock theta functions of Ramanujan. The treatment of the fifth order functions relied on the classical q-hypergometric series hierarchy. The treatment of the seventh order functions relied on ad hoc recurrence arguments. In this talk we discuss a recent, unified approach to these problems which has the advantage of introducing an infinite family of results whose first two instances are instances of the fifth and the seventh order mock theta functions respectively. (Received January 24, 2014)