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Barry R. Smith\* (bsmith@math.ucsd.edu), University of California, San Diego, 9500 Gilman Dr., Dept. 0112, La Jolla, CA 92093-0112. Connecting special values of partial zeta functions with Ankeny, Artin, and Chowla's formulae. Preliminary report.

In 1952, Ankeny, Artin and Chowla published congruences connecting the value mod p of a particular sum with the class number and fundamental unit of a given real quadratic field, as well as to the value of a certain generalized Bernoulli number. Generalizations of these results will be discussed, as well as their connection to the values of some partial zeta functions at s = 0. (Received September 22, 2005)