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Gerald M. Higdon* (ghigdon@fitchburgstate.edu). *More Blips and Blops: Reciprocal Even and Reciprocal Odd Functions*. Preliminary report.

The saying "The Blip of the Blop Equals(?) the Blop of the Blip" has been used to represent the problem of interchanging the order of mathematical operations. An odd function, $f(-x) = -f(x)$, is, obviously, a "Blip of the Blop" in that it defines functions such that the function of the negation equals the negation of the function. This talk defines the concept of reciprocal even and reciprocal odd functions and presents several examples. Properties of such functions are studied along with how such functions relate to ordinary even and odd functions. Finally, the idea is considered in an abstract setting. (Received September 14, 2012)