

1035-Z1-1954 **Jody M Sorensen*** (sorensj1@augzburg.edu), Department of Mathematics, Augsburg College, Minneapolis, MN 55406, **Maureen T Carroll** (carrollm1@uofs.edu), Department of Mathematics, Scranton, PA 18510, and **Elyn K Rykken** (elrykken@muhlenberg.edu), Department of Mathematics and Comp. Sci., 2400 Chew Street, Muhlenberg College, Allentown, PA 18104. *Road Rage and the FTC.*

At best, the inclusion of interesting examples drawn from local culture or a topical event can inspire budding mathematicians. At the very least, such examples can answer the dreaded "What is this good for?" We will discuss one such example that can be used in the calculus classroom: the mathematics used by the engineers at the Department of Transportation in Pennsylvania to determine when a left-turn signal installation is warranted at an existing intersection. In this investigation we find an unexpected application of the Fundamental Theorem of Calculus. (Received September 20, 2007)