

1014-W1-243      **Robert P Webber\*** ([webberrp@longwood.edu](mailto:webberrp@longwood.edu)), Math and Computer Science Department,  
Longwood University, 200 High Street, Farmville, VA 22909. *Acceleration of a Magnetic Tape;*  
*Numerical Evidence for the Chain Rule.*

Two problems are discussed. In the first, a magnetic tape must accelerate from a stop to a given speed in a given length and time. What is the acceleration? In the second, a spreadsheet is used to compare a derivative done correctly and incorrectly by the chain rule to the difference quotient of the function. (Received August 30, 2005)