1067-Z1-1642   **Robert L. Sachs*** (`rsachs@gmu.edu`), MSN 3F2, Department of Mathematical Sciences, George Mason University, Fairfax, VA 22030. *An investigation of student discovery of the concept of eigenvector in the context of 2-D linear vector fields.* Preliminary report.

Students in a multivariable calculus course were given an experimental environment depicting 2-D linear vector fields given by a symmetric matrix with adjustable coefficients. The aim was to see if the concept of eigenvector emerged from their investigations. (Received September 21, 2010)