

A. This application was written by Coey Minear. It was developed in support of the Integrated First-Year Curriculum in Science, Engineering, and Mathematics at Rose-Hulman Institute of Technology. This curriculum project is supported by the National Science Foundation, the General Electric Foundation, and Lilly Endowment, Inc. If you are interested in this or any other application written for the Rose-Hulman Institute of Technology First Year Integrated Curriculum, please contact us at **ifycsem@nextwork.rose-hulman.edu**. The following people are currently serving as professors for the curriculum and would welcome your comments and questions:

Dr. Claude Anderson, III, Computer Science  
Campus Box 98

ext. 8331

Dr. Jerry Fine, Mechanical Engineering  
Campus Box 140  
ext. 8353

Dr. Jeffrey Froyd, Electrical Engineering  
Campus Box 111  
ext. 8340

Dr. Mike Moloney, Physics

Campus Box 161  
ext. 8302

Dr. Howard McLean, Chemistry  
Campus Box 70  
ext. 8378

Dr. Edward Mottel, Chemistry  
Campus Box 71  
ext. 8315

Dr. Brian Winkel, Mathematics  
Campus Box 132  
ext. 8412

c/o Rose-Hulman Institute of Technology  
6060 Wabash Avenue  
Terre Haute, Indiana, USA 47803

phone 812-877-1511  
or  
812-877- ext.

- B. This application best fits in the mathematics category.
- C. This application was designed to help the user visualize the relationship between a function and its derivative. One of several functions is displayed. The user is asked to determine the shape of the derivative of the function. A tangent line is automatically drawn on the function curve and is controlled by a slider to help the user in the construction of the derivative. A score is generated based upon the user's accuracy.
- D. This application is used as part of the Integrated First Year Curriculum in calculus

classes to demonstrate the relationship between a function and its derivative.

- E. This application was developed under NeXTSTEP 2.1.
- F. This application requires no special installation.
- G. The Documentation folder included with the application is required for online documentation built into the application. If it is removed, the application will still function properly, except for Help.