

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:

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- 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.