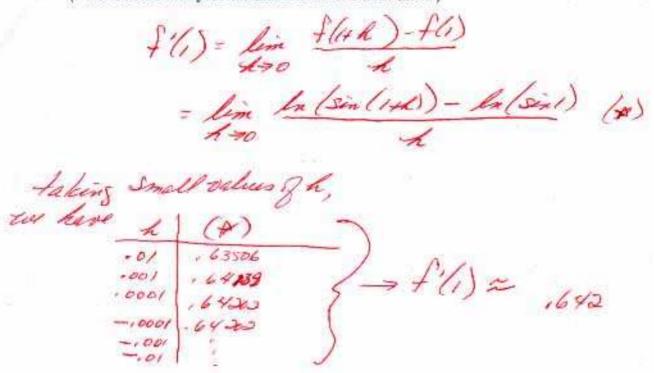
10. (8 points) Let $f(x) = \ln(\sin x)$. Use your calculator and the limit definition of the derivative to approximate the instantaneous rate of change of f at x = 1. In order to receive full credit, you must show your work and indicate the values that you use to come up with your approximation. (Note: be sure that your calculator is set to radian mode.)



11. (8 points) In the figure below, it is given that f(0.5) = 3, f'(0.5) = -2, and h = 0.1. Determine the values of y_1 , y_2 , and x_2 .

