Quiz 012612 (CLOSED BOOK… PAPER/PEN AND PAPER)

1. What is the general syntax for a function?

*[output\_variables] = function\_name(input\_variables)*

1. What name is given to variables defined within a function?  
   *local function*
2. Given an example of a function handle that references the **sin** function?  
   *h=@sin*
3. The “fzero” function determines the root of a single variable equation given an initial guess. If you wanted to find the value of sin(x) that was zero and you thought it was about “x=6”, write the MATLAB code that would invoke fzero using the handle from Question 3.

*fzero(h,6)*

1. In the following MATLAB code, what action would the [0,3] cause to occur: >> x = fzero(‘fun1’, [0,3]);

*This would cause MATLAB to find a root of fun1 starting at x=0 and starting at x=3. These might lead to the same root or different roots.*