Instructor In-class Matlab Calculations

- Start Matlab and illustrate row and column arrays
- Array and matrix operations, including .* and *
- Illustrate 2x2 arrays and inv() command for inverse matrix
- Graphics and plot() command
- Loops
- Matlab help and demo commands
- Matlab editor given by the Matlab command edit
- User defined functions, including temp.m
  Emphasize the difference between entries of an array and function evaluations
- Code files, including cooling.m
  Emphasize the difference between function files and code files:
  
  ```
  >> temp(3)   % requires a variable
  >> cooling   % no variable
  ```
- Use the command hold on to generate several curves on the same graph, include multiple executions of cooling.m