*Write MATLAB code to solve the following problems. Do not use any built-in functions (unless explicitly allowed).*

Group #:

Name:

**EXERCISE 1:** Use a loop to multiply together all the values in a row array X, which has N points. The final product goes into a variable TOTAL.

**EXERCISE 2:** Use a loop to find the maximum (largest) value in X, writing the result into a variable LARGEST**.**

**EXERCISE 3: U**se a loop to count the number of values in a vector X that appear before a 5. (i.e. if X=[1 12 2.5 5 8 4 5] we want an answer of 3). Put this number into another variable GETFIVE.

**EXERCISE 4:** Consider an MxN matrix A. Use a double loop to form a new 1xN matrix ROWSUM, the kth element of which contains the sum of elements in the kth column of A.

**EXERCISE 5:** Use [pX,pY]=ginput(1) to get a point, and continue getting points until pX<0. Store the pX values in another variable SX, where SX(1) is the first point chosen, SX(2) is the second element, and SX(N) is the last element.

**EXERCISE 6:** After this code runs, what is x? (Give the first 7 elements)

x=[0 1];

for k=3:100

x(k)=x(k-1) + x(k-2);

end;