a = 5,   b = [17 5],   c = [3 5 8 9],   d = [ 8      12   f = [8 9 5 5] ]

g = [2  4                     h = [12 14 7]        4 0 2]
   4 8              8 11
   6 12]            20  9

1) Given the following Matlab statements

jj = 1
ii = 2
while ii <= 12
  my_num(jj) = ii.*4
  jj = jj + 1
  ii = ii + 4
end

After the above while loop is finished executing,

a) the value of jj is __________
b) the value of ii is ______________
c) the result for my_num is ______________

2) Given the following Matlab statements

my_num = 8
ii = 2
while my_num > 0
  my_num = my_num - ii.*2
end

After the above while loop is finished executing,

a) the value of ii is ______________
b) the result for my_num is ______________

3) Given the following Matlab statements

jj = 1
ii = 1
while f(jj,ii) >= 8
  f(jj,ii) = a
  ii = ii + 1
  jj = jj + 1
end

After the above while loop is finished executing,

a) the value of jj is ______________
b) the value of ii is ______________
c) the result for f is ______________

4) Given the following Matlab statements

ii = 1
jj = 1
while h(jj,ii) > 10
  while h(ii,jj) >= 11
    f(jj,ii) = jj .* ii .* 2
    ii = ii + 1
  end
  jj = jj + 1
end

a) the value of jj is ______________
b) the value of ii is ______________
c) the result for f is ______________

5) Write a while loop that calculates the sum of the squares of the even integers from 1 to 10. That is, calculate $2^2 + 4^2 + ... + 10^2$.

6) Write a while loop that creates a vector of the cubes of every third integer (starting at 1) that are less than 10000. That is, create the vector that contains $1^3, 4^3, 7^3, 10^3, ...$ All values in the vector must be less than 10000.

For 5 and 6 DO NOT use Matlab, but rather write out by hand the solutions. You can use Matlab on your own to check your answers. For 5 and 6, provide a table that contains the values of all variables (including the index or indexes) at all iterations of each loop. If there are vector variables, the table should include the contents of the entire vector at each iteration. For 5 and 6, write out the value or values of all indexes AFTER the loop is finished.