1) Given the following Matlab statements:

After the above *while loop* is finished executing,

a) the value of \( jj \) is ________ 4

b) the value of \( ii \) is __________ 14 __________

c) the result for \( my\_num \) is _______________

2) Given the following Matlab statements:

After the above *while loop* is finished executing,

a) the value of \( ii \) is __________ 2 __________

b) the result for \( my\_num \) is _______________

3) Given the following Matlab statements:

After the above *while loop* is finished executing,

a) the value of \( jj \) is ________ 1

b) the value of \( ii \) is __________ 3 __________

c) the result for \( f \) is _______________

4) Given the following Matlab statements:

After the above *while loop* is finished executing,

a) the value of \( jj \) is ________ 2 __________

b) the value of \( ii \) is __________ 1 __________

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 \( 2^2 + 4^2 + ... + 10^2 \).

```
sum = 0
ii = 2
while ii < 12
    sum = sum + ii.^2
    ii = ii +2
end
```

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.

```
ii = 1
jj = 1
while ii.^3 < 10000
    my_list(jj) = ii.^3
    jj = jj + 1
    ii = ii + 3
end
```