Group _____

1. What is the output of the last statement? for i =1:1:3 a(i,i)=0;

end for i=1:1:3a(i,i)=a(i,i)+7;end a(3,3)

2. Give an example of a tridiagonal matrix of size 4x4 with elements that has as many non-zero elements as possible.

3. Give an example of a 4x4 diagonal matrix with as many nonzero elements as possible

4. Given

function out=valfun(a,b) % a= input real number % b= input real number out=sqrt(a^2+b^2)

is saved in valfun.m file, what would be the output of the last line of the following test program

outvalue=valfun(3,4)

5. The output of the last line is

i=0while (i<=4) i=i+1;j=i*3;end j

6. The output of the last line is i=0while (i<=4) j=i*3; i=i+1;end j