1. Write a MATLAB script file by using the *for loop* to compute the value of the following function:

,

Where  values from -1 to 2 with an increment of 0.1, in additions, to draw the graph of the .

1. Write a MATLAB SUB-function to evaluate the members of the sequence, where a, and n are the inputs and the sequence value of is the output of this SUB-function and save it as a script file. Then, write a main function to input the range of the value n from 0 to 20, and =2, and call the SUB-function to evaluate the sequence value, and display the value of n and by using *fprintf*, as the following format:

n 

1. 1
2. 2
3. 2
4. 1.33

1. To write a program which can accept an input x value from 0 to 100 while calculating and displaying the letter level corresponding to the one listed in the following list.

A: x ≥ 90

B: 80 ≤ x ≤ 89

C: 70 ≤ x ≤79

D: 60 ≤ x ≤ 69

E: x < 60

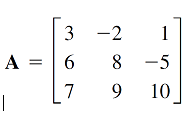
Use *if and elseif* statements in your program.

1. The (x, y) coordinate of an object can be expressed as a function of time t, as follows:



Where 0 ≤ t ≤ 4. Write a program by using the *for loop* that finds the time at which the object is closest to the origin (0, 0) and finds the smallest distance.

1. Assign the matrix A and B as the following



And B=log(A+10)

a. Only select the second column in A and Calculate the sum of the second column.

b. Find the maximum and minimum values in each row of A.

c. Find the maximum and minimum values in each column of A.

d. Multiply the second column in B and the first row in A by the point-wise operation.