- A. Draw a flow chart to find multiple roots of a given function. Write a Matlab script to find multiple roots of a given function.
- B. Draw a for-loop flow chart to evaluate the following series, and write a Matlab function to implement your flow chart

$$\int_{N} = \sum_{n=1}^{N} \left(\left\lfloor \frac{n^2}{5} \right\rfloor + \left\lceil \frac{2n}{3} \right\rceil \right)$$

$$Q_{n} = Q_{n-1} + 2 Q_{n-2}, n > 3$$

 $Q_{1} = Q_{2} = 1$

- C. Let s denote a series that consists of 200 outcomes of a dice.
 - 1. Generate s
 - 2. Draw a flow chart to count numbers of possible outcomes in s
 - 3. Write a matlab function to implement your flow chart
- D. Let ss denote a sequence of actg characters.
 - 1. Draw a flow chart to count numbers of four characters in ss.
 - 2. Write a matlab function to implement your flow chart.
- E. Let v0 =(100 600 300)^T and P denote the transition matrix
 - 1. Draw a for-loop flow chart to evaluate vk, where
 - 2. Write a matlab function to implement your flow chart
 - 3. vk= ? for k=20 and k=100



P =		
0.1000 0.3333	0.4500	0.4500 0.6667
0.5000	Ö	0.5000