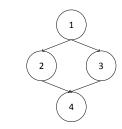
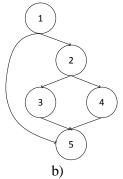
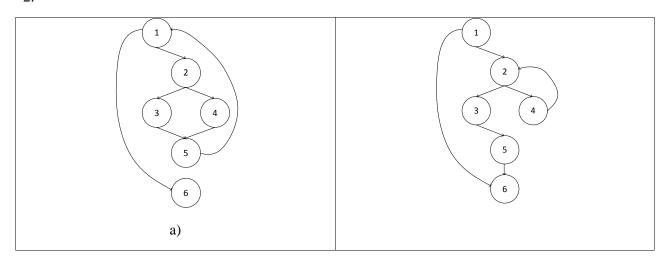
1. Develop the graph matrices and calculate the cyclomatic complexity of the following flow graph



a)



2.



- Find all independent paths:
- Suppose the first independent path is 1-6b)

- b1. Find all of other independent paths
- b2. Find a new path which is not independent path
- 3. Given the following program

a) Draw flow graphs, find basic paths and the corresponding path conditions

b) Resolve question a if the condition is  $a[i] \% 2 == 0 \mid | a[i] \% 3 == 0$ 

c) Resolve question a if the condition is if the condition is  $(a[i] \% 2 == 0 \&\& a[i] \% 4 == 0) \parallel a[i] \% 3 == 0$