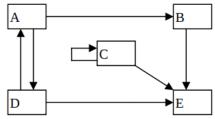
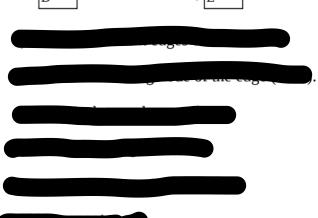
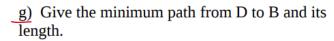
Homework 16a

only problems 2gklm, 5 (For problem 2, only complete parts g, k, l, and m) (For problem 5b, ignore the edge weights) 29 Mar 2023

2. Consider the following graph G.











- k) Is <E, B, A> a simple path in G?
- l) Is <D, A, D, A, D> a cycle in G?
- m) Give all simple cycles of G

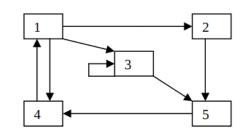
- k) no
- I) no
- m) <A,D,A>, <D,A,D>, <C,C>





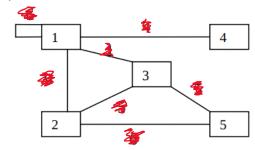
5. Give the adjacency list representation for the following graphs. (You may use the simple notation for adjacency lists that appears in the class notes.)

a)



1	2,3,4
2	5
3	3,5
4	1
5	4

b) ignore edge weights



1	1,2,3,4
2	1,3,5
3	1,2,5
4	1
5	2,3