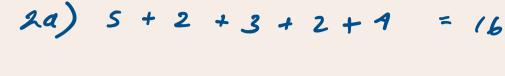
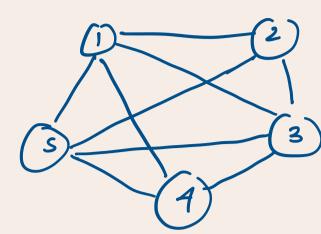
Graph_5027221036

Thursday, 02 November 2023

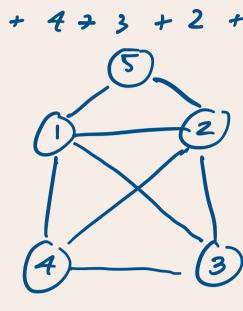
ABCOE

- F 1 1 0 1 0
- 2) A simple graph is only achievable when the
- sum of degrees is an even number

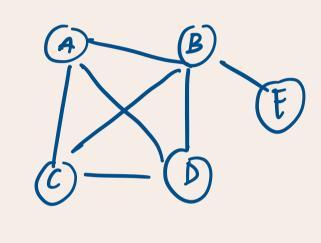




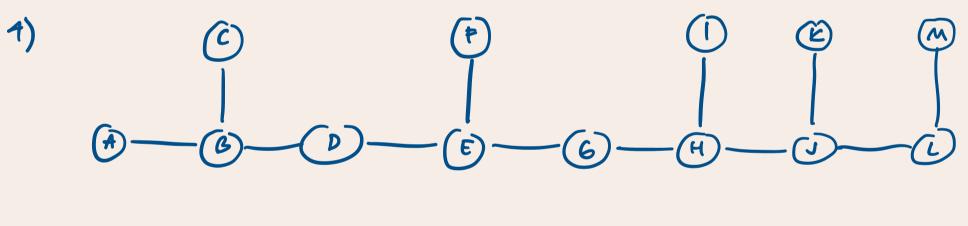
(26) 1 + 4 + 3 + 2 + 3 = 16



- 2c) 3 + 3 + 2 + 3 + 2 = 13- cannot because odd number, a node wouldn't be able to exist in the graph
- $2d) \quad 4 + 4 + 1 + 3 + 2 = 17$



- A 0 1 1 0 0 0 0
 - C 0 0 0 0 1 1 0
 - 0000011
 - F 0 0 0 0 0 1 F 0 0 0 0 0 0 0
 - 6 0 0 0 0 0 0
 - 36) [A] -B-C
 - [B] C D E [6] -E-F
 - $[\ 0 \] -F-6$ [F] - 6
 - []
- [6]



- Sum of entries in any row or column which

si) - diagonal entries will be zero.

- are equal to the degree of corresponding vertex.
- Sii) since no loops, the sum of entres in any row of the neidence matax of 6 13 equal to the degree of corresponding venter
- siii) since 10 loops, the sum of entries in any column represents the number of ventices incident to the corresponding edge

 - 8i) No, not possible

b) adjacency matrix

8ii) 2 +3+3+ +45+5 = 22

