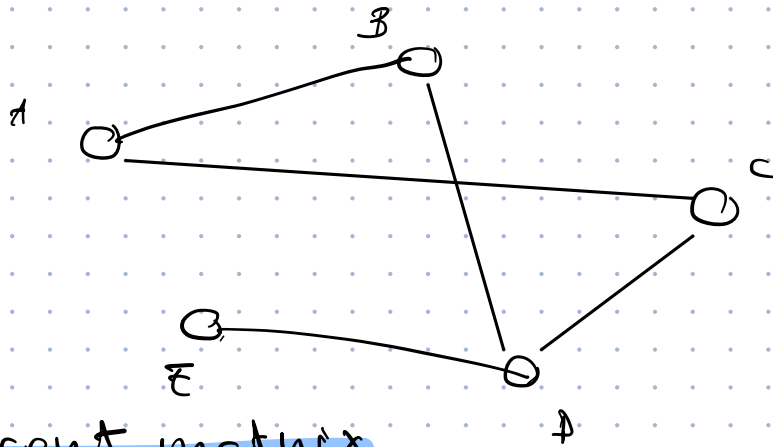


Problem 0

Vertices: A, B, C, D, E

Edges: AB, AC, BD, CD, DE



(a) Adjacent matrix

A: 1, B: 2, C: 3, D: 4, E: 5

	A	B	C	D	E
A	1	0	1	1	0
B	2	1	0	0	1
C	3	1	0	0	1
D	4	0	1	1	0
E	5	0	0	0	1

← Since the graph is undirected, the matrix is symmetric along the diagonal.

• Adjacency list

- 1 [2, 3]
- 2 [1, 4]
- 3 [1, 4]
- 4 [2, 3, 5]
- 5 [4]

• Edge list

- [(1, 2), (1, 3), (2, 4), (3, 4), (4, 5)]

Problem 1

(a)