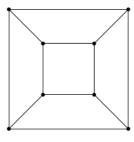
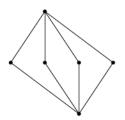
Your Name: UCLA ID:

SECTION: Cross one box below

Day \ T.A.	John	Zach	Sam
Tuesday	1A	1C	1E
Thursday	1B	1D	1F



Problem 1.



Problem 2.

Problem 1. Circle all the options that apply The graph on the left:

(a) bipartite,

4

- (b) Eulerian,
- (c) has Hamiltonian cycle.



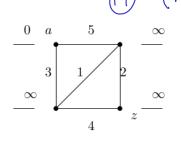
Problem 2. Circle all the options that apply The graph on the right:

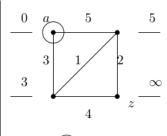
- (a) bipartite,
- (b) Eulerian,
- (c) has Hamiltonian cycle.

only graph with degree sequence (2, 2, 2, 2, 4, 4).

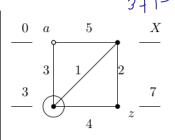
- has to be corrected - two 4-vertices are adjacent

Problem 3. For the following weighted graph we apply Dijkstra's algorithm to find the shortest weighted path from vertex a to vertex z. Fill in the missing vertex weights L(v): $X = \underbrace{4}$ and $L(z) = Y = \underbrace{6}$, and **mark** the shortest weighted path from a to z.





• active vertex



processed vertex

