

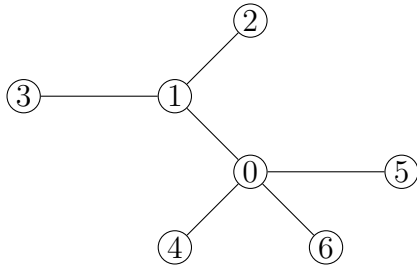
Quiz 2

Show all your work

Name: _____
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 Score: ____/10

Problem 1:

- a. Take the given tree and fill the entries of its adjacency matrix with 1's where appropriate. Do not fill with 0's.



	0	1	2	3	4	5	6
0		1			1	1	1
1	1		1	1			
2		1					
3		1					
4	1						
5	1						
6	1						

- b. Suppose the tree above is rooted at vertex 0, construct the extended Prüfer code of the tree.

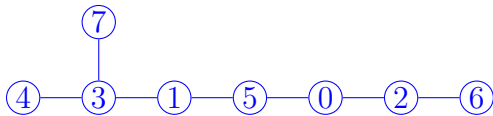
2 3 1 4 5 6
 1 1 0 0 0 0

Score: /5

- Problem 2:** Given the second row of an extended Prüfer code: 3203150, construct its first row, then draw the corresponding rooted labelled tree.

7 edges and 8 vertices.

4 6 2 7 3 1 5
 3 2 0 3 1 5 0



Score: /5