

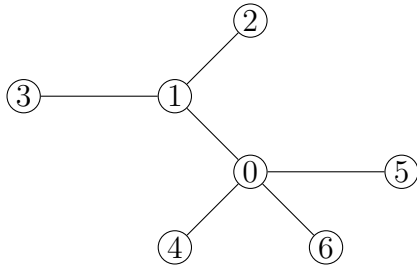
Quiz 2

Show all your work

Name: _____
 Number: _____
 Signature: _____
 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 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |

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

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.

Score: /5