

Tree

5.2.1

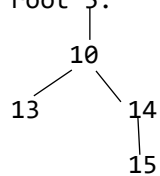
a) root: 1

b) leaves: 8, 9, 13, 15, 6, 11, 12

c) interior nodes: 1, 2, 4, 3, 5, 10, 14, 7

d) siblings of 6: 5, 7

e) subtree with root 5:



f) ancestors of 10: 5, 3, 1

g) descendants of 10: 13, 14, 15

h) left nodes of 10: 8, 9

i) right nodes of 10: 11, 12

j) longest path: 5 (root 1 → 15)

k) height of 3: 4 (3 → leaf)

l) depth of 13: 4 (13 → root)

m) height of tree: 5 (longest path)