Week 16

July 19, 2024

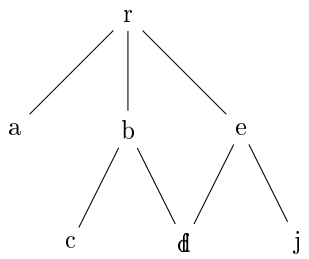
1 Rooted trees

Outlines

- Definition of rooted trees
- Terminology of rooted trees
- Depth and height in a tree
- Special trees
- Regular rooted trees and properties
- Isomorphic rooted trees and properties

1.1 Definition of rooted trees

A rooted tree is a directed tree having one distinguished vertex r, called a root, such that for every vertex r there is a directed path from r to v.



1.2 Terminology of rooted trees

1.3 Depth and height in a tree

1.4 Special Trees

1.5 Regular rooted trees and properties

1.6 Isomorphic rooted trees and properties