

These are some review questions to test your understanding of the material. Some of these questions may appear on an exam.

1 General Trees

- 1.1 Define *tree*.
- 1.2 For any tree T , define *path* in T , *length* of a path in T , *height* of a node in T , *depth* of a node in T , *height* of T , *depth* of T , and *internal path length* of T .
- 1.3 Know how to draw the binary tree (first child, next sibling) representation of a given general tree.
- 1.4 Know how to draw the general tree represented by a given binary tree (first-child, next-sibling) representation.
- 1.5 Prove: there are $n - 1$ edges in any tree with n nodes.