▶ **Problem 12.1-14**

(a) Draw the graphs of all nonisomorphic unlabeled trees with six vertices.

(b) How many isomers does hexane (C_6H_{14}) have? Why?

Solution. (a)

(b) There is one isomer for each tree (with six vertices) in which all vertices have degree at most four, and the C atoms corresponding to the vertices. There are five isomers of C_6H_{14} shown as follows.

□