Ternary Trees

A ternary tree is a rooted tree in which each internal node has exactly three children.

- (a) Draw a ternary tree of height 2 in which each external node lies on level 2.
- (b) Let T be a ternary tree of height h in which all external nodes lie on level h. Determine the number of nodes on level i for all integers i, $0 \le i \le h$.

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(b) Let *T* be a ternary tree of height *h* in which all external nodes lie on level *h*.

Determine the number of nodes on level i for all integers i, $0 \le i \le h$.