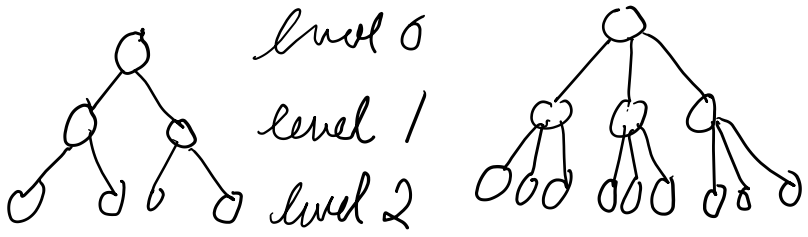
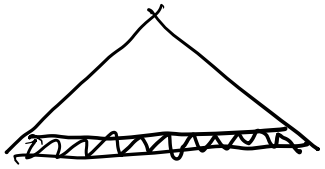


Bottom level is B

(#branches)^level nodes at any level.

Confirm by drawing a tree with 4 branches.

# of levels = B + 1



nodes at level B are called "leaves"

If you know the # of leaves, you can find B

(#branches)^B = #leaves

B = log #leaves

Verify this by drawing many trees.