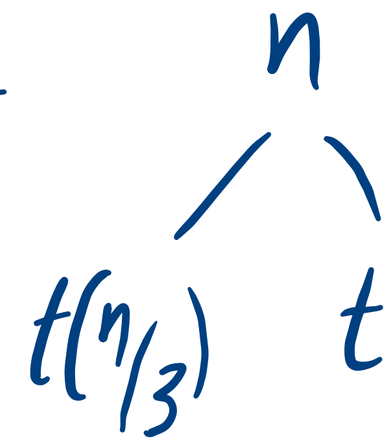
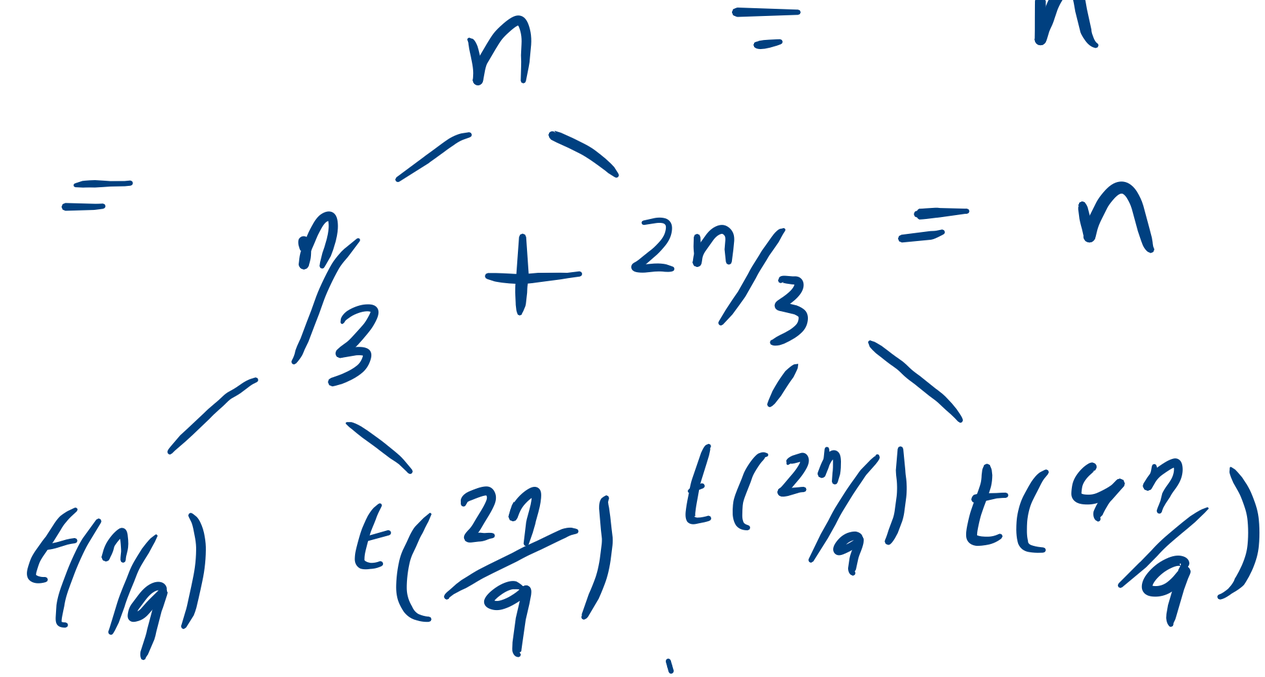
$t(n) = t(n/3) + t(2n/3) + n$

$t(n) =$



$=$



$= n$

$= n$

Each level has at most n

Depth of tree is $\leq \log_{3/2}(n)$

$\Rightarrow t(n) = O(n \log(n))$

Guess, now prove.