Midterm revision

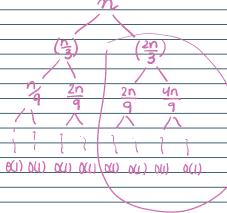
Thursday, November 3, 2022 12:37 PM

Use the recursion tree method to get an upperbound for the hollowing

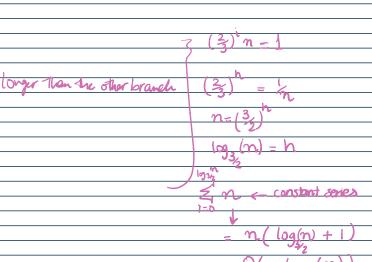
$$T(n) = T(\frac{n}{3}) + T(\frac{2n}{3}) + O(n)$$

2 recursive pourts

Solution



maximum height will be from the



Consider the following recurrence

$$T(n) = T(\gamma_2) + 5$$

$$T(1) = O(1)$$

Solve using master theorem.

any no. %1 > gets decimal

o < d < 1 bower of higher bound

where 0.2 Cel

