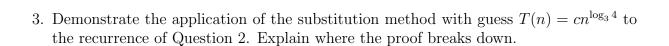
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Today Solving recurrences; §§ 4.{3,4,5}. **Next class** Elementary Graph Algorithms. §§ 22.*.

- 1. Write your name below.
- 2. Demonstrate the recursion tree method on the recurrence T(n) = 4T(n/3) + 5n.



4. Modify the guess of Question 3 to allow the use of the substitution method to prove that $T(n) = O(n^{\log_3 4})$.

5. Prove the result of Question 4 using the $master\ method.$