

Name: _____ Student#: _____ Date: _____

COMP 2711: Discrete Mathematical Tools for Computer Science

In Class Exercise #20

1. Iterate the recurrence to derive that the solution to:

$$T(n) = \begin{cases} 3T(n/3) + n & \text{if } n \geq 3, \\ 1 & \text{if } n < 3. \end{cases}$$