Practice Set Problems (Recurrence Relation)

2) 
$$T(n) = \begin{cases} 1 & \frac{m=1}{m} \\ 8T(\gamma_2) + n^2 \end{cases}$$
 Solution  $\rightarrow O(n^3)$   
Substitution method

3) 
$$T(n) = \begin{cases} 1 & \underline{m=1} & \text{Solution} \rightarrow O(\log n) \\ T(n/2) + c & m>1 \end{cases}$$

Substitution method