Practice Set Problems (Master's Theorem)

1) 
$$T(n) = T(\sqrt{n}) + C$$

$$\frac{n = 2^{k} (Hint)}{n} \rightarrow T(2^{k}) = T(2^{k/2}) + C$$

$$\frac{n'/2}{n}$$
Answer  $\rightarrow \Theta(\log \log n)$ 

$$\frac{1}{n} = \frac{1}{n} = \frac{$$

2) 
$$T(n) = 2T(n/2) + mlog n$$
 Answer  $\rightarrow \Theta(n(log n)^2)$  Recurrent

2)  $T(n) = 2T(n/2) + mlog n$  Relation