Mesha Theorem Dividing further

$$T(n) = \alpha T(\gamma_k) + \gamma \log \gamma^2$$
 $\alpha \ge 2 \log_k^2 = K$
 $\frac{1}{2} T(n) = 2 T(\gamma_k) + \gamma \log \gamma$
 $\log_k^2 = \log_k^2 = 1$; $k \ge 1 / 2$
 $\log_k^2 = \log_k^2 = 1$; $k \ge 1 / 2$
 $\log_k^2 = \log_k^2 = 1$; $k \ge 1 / 2$
 $\log_k^2 = \log_k^2 = 1$; $\log_k^2 = \log_k^2 = 1$
 $\log_k^2 = \log_k^2 = 1$; $\log_k^2 = \log_k^2 = 1$
 $\log_k^2 = \log_k^2 =$