$$\begin{array}{l} | og 8| 256 \\ = | log 256 \\ \hline | log 8| \\ = | log 4 \\ \hline | log 3 \\ \hline 27 | log 4 \\ \hline | log 3 \\ \hline = 27 | log 3 \\ \hline = 64 \\ \hline \end{array}$$

$$= 64$$
2)  $\frac{\log_{3} 125 + \log_{3} 729}{\log_{3} 15}$ 
 $\frac{\log_{3} 15}{\log_{3} 15}$ 
 $\frac{\log_{3} 15}{\log_{3} 15}$ 
 $\frac{\log_{3} 15}{\log_{3} 15}$ 
 $\frac{\log_{3} 15}{\log_{3} 10}$ 
 $\frac{\log_{3} 15}{\log_{3} 15}$ 
 $\frac{\log_{$ 

3)  $m = p^{\chi y}$   $\log_{\chi} (\log_{\chi} m) = y$