129. The independent random variables $X_1, ..., X_n$ have the common distribution

$$P(X_i \le x \mid \alpha, \beta) = \begin{cases} 0, & x < 0 \\ \left(\frac{x}{\beta}\right)^\alpha, & 0 \le x \le \beta \\ 1, & x > \beta \end{cases}$$

(a) Find a two dimensional sufficient statistic for $(\alpha, \beta)$.

(b) Find the MLEs of $\alpha$ and $\beta$.