$$P(x_{1:n} | a, b) = \prod_{i \neq 1}^{n} p(x_{i} | a, b)$$

$$= \prod_{i \neq 1}^{n} \left[ab \exp(-abx_{i}) \right] \qquad dist. \text{ the } T$$

$$= (ab)^{h} \exp\left\{-ab\sum_{i \neq i}^{n} x_{i} \right\}.$$
Remark / obs: likelik. is symm about a, b so if I find
$$p(a|x_{i}b) \text{ then } T \text{ will knaw}$$

$$p(b|x_{i}a) \text{ by symmetry.}$$

$$p(a|x_{i}b) \text{ dy symmetry.}$$

$$= p(x_{1:n}|a,b) p(a,b)$$

$$= (ab)^{n} \exp\left\{-ab\sum_{i \neq i}^{n} x_{i} \right\} \times \exp\left\{-a-b\right\}$$

$$= a^{n}b^{n} \exp\left\{-ab\sum_{i \neq i}^{n} x_{i} - a\right\}$$

$$= a^{n}b^{n} \exp\left\{-ab\sum_{i \neq i}^{n} x_{i} - a\right\}$$

$$= a^{n}b^{n} \exp\left\{-ab\sum_{i \neq i}^{n} x_{i} - a\right\}$$

Purchaser = anti-lexp\ - a (b\(\frac{1}{2}\xi:t)\)

a | \(\chi_{i=1}\)

a | \(\chi_{i=1}\)

b | \(\chi_{i=