Sufficermy thereinte () The si (1-p) 1-xi = p \(\frac{1}{2} \) \(\f F(K, 182--- 5)+5p) =p+(1-p) N-+ were \$ x 2 + (x) (x) x + 1 g(+3p) = (n)p+(1-p)n-+ Por +=0,1,-n P(K11x2.- x1 (=+3p) = P(4, 82, -81) +p) $=\frac{p+(l-p)^{n-+}}{(+)^{p+(l-p)}^{n-+}}$ 2 (7) € vet x6 € 1,2, ... }h ad t= +(x)=x,+...+xh. (= P) = = = Pn (1-P) +-1 from which sufficiency is do vous.

B Negative bound with fixed ris an exponential fulg: $f_{\theta}(x) = (r+x-1) \theta^{r}(1-\theta^{t})$ $= \exp \{\log(1-\theta)x + \log(r+1) + r\log \}$ Since K(x) = x in this case, the complete sufferent of the POF θ basel on an ind smooth x_{t-1} , x_{t-1} is $t = \sum_{i=1}^{n} x_{i}$

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$$SP(x_{1}-x_{1}) \times n(x) = \frac{p \cdot nce}{r-(ce)^{n}} \left(\frac{1}{121} \times ice^{-1}\right) \exp(p)$$

$$T_{1} \times ice^{-1} = \exp(coc^{-1}) \sum_{i=1}^{n} \ln(c_{i})$$

$$T = \sum_{i=1}^{n} \ln(x_{i})$$