(a, X) \rightarrow (a, X)log p(x(0) = log f(x,0) log N (X (pr, T-1) $= \log \left(\sqrt{2\pi} e^{-\frac{\pi}{2}(x-\mu)^2} \right)$ $= -T \left(\chi^2 - 2 \kappa \mu + \mu^2 \right)$ $\frac{\pm}{2} - \frac{1}{2} \times \frac{7}{7} + \frac{7}{7} \times \frac{2\mu \times 7}{7}$ -Tis the hoef. of x?

Loy GN Lm, T | m, l, s, r)

= Loy [Ts-1 e-rr NT1 e 2 (m-m)²)

 $= \frac{1}{2} (s-1) \log T - rT + \frac{1}{2} \log T + \frac{1}{2} \log (1-T) (\mu^2 - 2\mu m + \mu^2)$ $= \frac{1}{2} (s-1) \log T - rT + \frac{1}{2} \log T - \frac{1}{2} \log (1-T) (\mu^2 - 2\mu m + \mu^2)$ $= \frac{1}{2} (s-1) \log T - rT + \frac{1}{2} \log T - \frac{1}{2} \log (1-T) (\mu^2 - 2\mu m + \mu^2)$