$(x|G^2) = \log(x|G^2) =$

 $\pm (62)$ $-\log \tan - \frac{1}{2} \log 6^2 - \frac{x^2}{262}$

 $U(x|G^2) = -\frac{1}{2G^2} + \frac{x^2}{2G^4}$

Var [7, (XIB)] on - [1, (XIB5)]

 $\frac{(1)(X1G^2) = 1}{2G^4} = \frac{\chi^2}{2(G^2)^3}$

 $I(Q_5) = -E^{G_5}[I_{ij}(X|Q_5)]$

 $= -\frac{1}{2(G^2)^2} + \frac{1}{(G^2)^3} + \frac{1}{(G^$

 $\frac{-1}{264} + \frac{6^2}{6^6} + \frac{1}{264}$

