$$\int_{0}^{1} \frac{1}{B(\alpha_{i}b)} x^{\alpha-1} c_{1} - x_{1}^{b-1} dx = \frac{1}{B(\alpha_{i}b)} \int_{0}^{1} x^{\alpha-1} (1-x)^{b-1} dx$$

$$= \frac{B(\alpha_{i}b)}{B(\alpha_{i}b)} = 1$$

$$= \frac{1}{B(\alpha_{i}b)} \int_{0}^{1} x^{\alpha-1} (1-x)^{b-1} dx$$

$$= \frac{1}{B(\alpha_{i}b)} \int_{0}^{1} x^{\alpha-1} (1-x)^{a-1} dx$$

$$= \frac{1}{B(\alpha_{i}b)} \int_{0}^{1} x^{\alpha-1} dx$$

Se 
$$ol = b = 1 \Rightarrow \text{NNB}(1,1) = \text{N}(ol1)$$

B(1,1)

 $\chi_{0}(t-x)^{o} \chi_{0}(x) = \frac{1}{2} \chi_{0}(x) = \frac{1}{2} \chi_{0}(x)$ 
 $\chi_{0}(t-x)^{o} \chi_{0}(x) = \frac{1}{2} \chi_{0}(x)$ 

Se 
$$\times n\mathcal{U}(a,b)$$
  $\sim a=0$   $\sim b=1$   
 $\int (a) = \int \mathcal{U}(a) = \mathcal{U}(a)$   
 $b-\alpha(\alpha,b) = \int (\alpha,b)$ 

$$E(X) = \frac{1}{8(\alpha_1b)} \int_{0}^{1} x^{\alpha_1} (1-x)^{b-1} dx$$

$$= \frac{1}{8(\alpha_1b)} \int_{0}^{1} x^{(\alpha+1)-1} (1-x)^{b-1} dx$$

$$= \frac{1}{8(\alpha+1)} \int_{0}^{1} x^{(\alpha+1)-1} dx$$

$$= \frac{1}{8(\alpha+1)} \int_{0}^{1} x^{(\alpha+1)} dx$$

$$= \frac{1}{8(\alpha+1)} \int_{0}^{1} x^{($$

$$E(XK) = \frac{1}{B(\alpha_1b)} \int_{0}^{1} x^{K} x^{\alpha-1} (1-x)^{b-1} dx$$

$$= \frac{1}{B(\alpha_1b)} \int_{0}^{1} x^{(\alpha+k)-1} dx$$

$$\begin{aligned}
F(\chi^2) &= \frac{\Gamma(\alpha+b) \, \Gamma(\alpha+2)}{\Gamma(\alpha) \, \Gamma(\alpha+2)} = \frac{\Gamma(\alpha+b) \, (\alpha+1) \, \Gamma(\alpha+1)}{\Gamma(\alpha) \, (\alpha+b+1) \, \Gamma(\alpha+b+1)} \\
&= \frac{\Gamma(\alpha+b) \, (\alpha+b) \, \Gamma(\alpha+b+1)}{\Gamma(\alpha) \, (\alpha+b) \, \Gamma(\alpha+b)} = \frac{\omega \, (\alpha+1)}{\omega \, (\alpha+b+1)} \\
&= \frac{\Gamma(\alpha+b) \, (\alpha+b) \, \Gamma(\alpha+b)}{\Gamma(\alpha+b) \, \Gamma(\alpha+b)} = \frac{\omega \, (\alpha+b) \, (\alpha+b+1)}{\omega \, (\alpha+b+1)}
\end{aligned}$$

$$\begin{array}{lll}
\log y_0, \\
\operatorname{NON}(X) &= (E(X^2) - E^2(X) &= \frac{\alpha(\alpha+1)}{(\alpha+b)(\alpha+b+1)} - \frac{\alpha^2}{(\alpha+b)^2} = \frac{\alpha(\alpha+1)(\alpha+b) - \alpha^2/\alpha+b+1}{(\alpha+b)^2(\alpha+b+1)} \\
&= \frac{\alpha^2 + \alpha^2 + \alpha^2 b + \alpha b - \alpha^2 - \alpha^2 b - \alpha^2}{(\alpha+b)^2(\alpha+b+1)} \\
&= \frac{\alpha b}{(\alpha+b)^2(\alpha+b+1)}
\end{array}$$