



$$= \frac{(\gamma b)^{\alpha}}{\beta(a,b)} pa^{-1} \left(1 + \frac{a}{b}p\right)^{-(a+b)} 1 p_{>0}$$

$$= \frac{(K/K_2)}{\beta(K/2, K/2)} p_{>} k/2 - 1 \left(1 + \frac{k_1}{K_2}p\right)^{-\frac{K_1 + k_2}{2}} 2 p_{>} p_{>$$

\$, X -> 2, Tr -> 2 Students T distribution has the N(0,1) Shape but Just Let, $Z_1, Z_2 \sim N(0,1)$, $R = \frac{Z_1}{Z_2} \sim \int_{\mathbb{R}} f(pu) f(p) |U| du$ = $\sqrt{\frac{1}{Van}} e^{-p^2 u^2/2} \frac{1}{Van} e^{-U^2/2} |U| du = \frac{2\pi}{\sqrt{2}}$ Hicker - 1818. $= \frac{1}{2\pi} \left(\int_{-\infty}^{\infty} e^{-\frac{p^2+1}{2}} \frac{u^2}{2} \left[-\frac{v}{2} \right] du + \int_{-\infty}^{\infty} e^{-\frac{p^2+1}{2}} \frac{u^2}{2} \left[-\frac{v}{2} \right] du \right)$ $= \frac{1}{2\pi} \left(\int_{0}^{-\infty} e^{-\frac{p^{2}+1}{2} u^{2}} |u| du + \int_{0}^{\infty} e^{-\frac{p^{2}+1}{2} u^{2}} |u| du \right)$ = + (e-12-102 udu U=0 \Rightarrow t=0, U=0 \Rightarrow t=0, U=0 \Rightarrow t=0, U=0 \Rightarrow t=0 = + - (auchy(0,1) by, $\chi = c + \sigma R$, $R \sim Cauchy(0,1)$, $\sigma > 0$, $\int_{0}^{\infty} (e^{-kx} dx = 1)$ $\chi \sim Cauchy(e, \sigma) = \frac{1}{\sigma R} \frac{1}{1 - (x-e)^2}$ Substituting the substitution of the experiments of the substitution of the su