$$P(x) = \frac{ce^{-c(x-a)}}{\pi}$$

$$1 = \frac{c}{\pi} \int_{a}^{b} dx e^{-c(x-a)}$$

$$= \frac{c}{\pi} \int_{a}^{c} dx e^{-cx}$$

$$= \frac{c}{\pi} \int_{a}^{c} dx e^$$

$$\Rightarrow \mathcal{T} = |-e^{-c(a-b)}| = |-e^{-c(b-a)}|$$

$$P(Y) = \frac{ce^{-c(Y-a)}}{\pi}$$

$$= \sum_{\alpha} p(\gamma') d\gamma'$$

$$= \frac{c}{\pi} e^{-c\gamma'} d\gamma'$$

$$= \frac{c}{\pi} e^{-c\alpha} \left[-\frac{c}{c} e^{-c\gamma'} \right]_{\alpha}^{\gamma}$$

$$= \frac{c}{\pi} e^{-c\alpha} \left[-\frac{c}{c} e^{-c\gamma'} \right]_{\alpha}^{\gamma}$$

$$= \frac{c}{\pi} e^{-c\alpha} \left[-\frac{c}{c} e^{-c\gamma'} - e^{-c\alpha} \right]$$

$$\Rightarrow 2x = 1 - e^{-c(y-a)}$$

$$\Rightarrow e^{-c(y-a)} = 1 - \pm x \qquad \chi \in U(0,1)$$

$$\Rightarrow$$
 $-c(y-a) = ln(1-2x)/$

=>
$$-C(\gamma-\alpha)$$
 = $-\ln(1-\gamma\pm x)$ + a $-\ln(1-\gamma$