Au g e nononanna. Jg(x) (4) = fx (g-1(4)). /g-1(4) a) $Y = X^{\alpha}$ $\alpha = 0$ $X = y^{1/\alpha}$, when $g^{-1}(H) = t^{1/\alpha}$ X ~ Exp() fy (+= fx (+ 1/4). (+ 1/4) = le -le 1/4 || the roj lather = \frac{1}{\alpha} e - le \frac{1-\alpha}{\alpha} || the roj $Q \sim U\left(-\frac{\pi}{2}, \frac{\pi}{2}\right) \Rightarrow \int_{Q} |t| = \frac{1}{\pi} \int_{\mathbb{R}^{2}} \left\{ t e\left(-\frac{\pi}{2}, \frac{\pi}{2}\right) \right\}$ $\times \sim ?$; $\int x(t) = ?$; $\times \in (-\infty, +\infty)$ X rpy &? X=40 If $|X \leq t| = |P(tg0 \leq t)| = |P(0 \leq arctgt)| = \int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} |A| ds = \frac{arctgt}{\pi}$ Chegol fixely = 1 1 Att The arcted of = 1 Xn Candy(1)