f(x,y) = ((x,y) e * * * Talley) gullori xx R 10 + G 1) Jak dy = 7 C(x-y) e oh ohy = C) (x-y) e e oh ohy $\int_{0}^{\infty} (x-y) e^{-y} dy = e^{-y} \int_{0}^{\infty} (x-y) e^{-y} dy = \frac{1}{|u-1|} \int_{0}^{\infty} (x-y) e^{-y} dy$ $= e^{-y} \left([(x+y)](-e^{-x}) \right) = e^{-y} \left((y+y) \right) = e^{-y} \left((y+y)$ $= e \int_{-\infty}^{\infty} e^{-\frac{1}{2}(y-1)} dy = 0$ $\int_{0}^{\infty} e^{-y}(x+1) dy = \int_{0}^{\infty} u = y+1$ $\int_{0}^{\infty} e^{-y}(x+1) dy = \int_{0}^{\infty} u = y+1$ $\int_{0}^{\infty} e^{-y}(x+1) dy = \int_{0}^{\infty} u = y+1$ $\int_{0}^{\infty} e^{-y}(x+1) dy = \int_{0}^{\infty} u = y+1$ 2 20 - 1 -> 4 = 2 2

4 Nilsoleine X / 7, (s)= 1 = (+14) oly = 2 e + (+14) e + oly = = 1 ex (++) P2 (x) = \$ 12 (x1y) . e (x1y) . g = 1 2 e 4 (y +7) frofe = = = (x+y) (x+1) (y+1) f(xy)= = (x+y) e (x+y) for to = f (ny) $\frac{1}{2} \frac{7}{6} e^{-(x+y)} (x+1) (y+1) = \frac{7}{2} (x+y) e^{-(x+y)}$ $(x+1)(y+1) = \frac{7}{2} (x+y) = \frac{1}{2} (x+y)$

$$\frac{1}{2} \int_{\mathbb{R}^{2}} \left(\frac{1}{2} \times (x + y) \right) e^{-x} e^{-y} dy dx = \frac{1}{2} \int_{0}^{\infty} \int_{0}^{\infty} x (x + y) e^{-x} e^{-y} dy dx$$

$$=\frac{1}{2}\int_{-\infty}^{\infty}xe^{-x}(1+x)dx=$$

$$\begin{cases} e^{-x} (x+x^2) dx = u = +2x \\ v = -e^{-x} \end{cases} = \begin{cases} (x+x^2)(-e^{-x})(-e^{-x})(-e^{-x})(-e^{-x}) \\ v = -e^{-x} \end{cases} = \begin{cases} (x+x^2)(-e^{-x})(-e^{-x})(-e^{-x})(-e^{-x})(-e^{-x})(-e^{-x}) \\ v = -e^{-x} \end{cases} = \begin{cases} (x+x^2)(-e^{-x})(-e^{$$

mos anologicame

$$\begin{cases}
\frac{1}{2} + \frac$$

$$\frac{1}{3} \quad \text{find} \quad \text{f$$

$$F_{Y}(t) = P(Y \in t) - P(X^{2} \in t) = P(-\sqrt{t} \leq x \leq \sqrt{t}) = F_{X}(\sqrt{t}) - F_{Y}(-\sqrt{t}) = F_{X}(\sqrt{t}) - F_{Y}(\sqrt{t}) = F_{X}(\sqrt{t}) - F_{X}(\sqrt{t}) = F_{X}(\sqrt{t}) = F_{X}(\sqrt{t}) - F_{X}(\sqrt{t}) = F_{$$

$$f_{\times}(x) = (\nabla f_{\times} f_{\times} (\nabla f_{\times} - \nabla f_{\times} f_{\times} (-\nabla f_{\times}))) = \frac{1}{2} (\nabla f_{\times} f_{\times} (-\nabla f_{\times})) = \frac{1}{2} (\nabla f_{\times} f_{\times} (-\nabla f_{\times}) = \frac{1}{2} (\nabla f_{\times} ($$

$$\begin{cases} f_{x}(x) = \frac{1}{b^{2}} & \text{if } x = \frac{1}{b$$