7) 3, 4 32 muerox nevor nevor. pacop. S(x). Hairu
cobinecti. neioth. pacop. (r, φ) τ. (31, 32) 0 ε φ < 251
$3_1 = r \cos \varphi$ $\Delta = \begin{cases} x^2 + y^2 \leq r^2 \end{cases}$
$3_{1} = r \cos \varphi$ $A = \begin{cases} x^{2} + y^{2} \leq r^{2} \\ arctg \neq x \leq \varphi \end{cases}$ $A = \begin{cases} x^{2} + y^{2} \leq r^{2} \\ arctg \neq x \leq \varphi \end{cases}$
$P(r \in r_0, \varphi \in \varphi_0) = \iint_A S_{2,1}(x) S_{2,2}(y) dxdy = \int_A S_{2,2}(y) dxdy $
= 1 s(reosq) g(rsing) r drdq
Orkyga novegreur gr, q (ro, qo) = g (ro cos qo) · g (ro Sin qo) ro
rge 0 € r₀ € + ∞ 0 € φ₀ < 251

(8) C. b.
$$3 u \ 7 \text{ recy.}$$
 c pabheau. $p \text{ rea } [0, a]$

$$S(x_1), S(x_2), S(x_3), S(x_4) \cdot ? \qquad \chi_1 = 3 + 7 \qquad \chi_2 = 3 - 7$$

$$\chi_3 = 3 \cdot 7 \qquad \chi_4 = \frac{3}{7}.$$
1) $S_{7+7}(x) = \int_{x_1}^{x_2} S_{7}(y) \cdot S_{7}(x-y) \, dy = \frac{x}{a^2}, x \in [0, a]$

$$S_{7+7}(x) = \int_{x_2}^{x_3} S_{7}(y) \cdot S_{7}(x-y) \, dy = \frac{2}{4} - \frac{x}{a^2}, x \in [a, 2a]$$

$$S_{7}(x) = \begin{cases} 0, & x \in [-\infty, a) \\ \frac{x}{a^2}, & x \in [a, 2a] \end{cases}$$

2)
$$F_{x_{2}}(x) = P(3-1 \le x)$$
 $F_{x_{2}}(x) = P(3-1 \le x)$
 $F_{x_{3}}(x) = P(3-1 \le x)$
 $F_{x_{4}}(x) = P(3-1 \le x)$
 $F_{x_{4}}(x$

3)
$$F_{x}$$
, $(z) = P(3\eta \le z) = \frac{1}{3}$

$$= \int_{3}^{3} (x) dx \int_{3}^{3} (x) dy + \frac{1}{3} \int_{3}^{3} (x) dx \int_{3}^{3} (x) dy = \frac{1}{3} \int_{3}^{3} (x) dx \int_{3}^{3} (x) dy + \frac{1}{3} \int_{3}^{3} (x) dx \int_{3$$

(9)
$$\frac{3}{7} \sim 41 - 1.11$$

$$\frac{9}{1} = \frac{1}{1} = \frac{1}{1}$$

(11) C reaugeur up row, rero

$$\int \int \int \partial_{x,7}(x,y) dx dy = 1$$
10,11×10,11

$$C \int \int dx \int (x+y) dy = C \int (x+\frac{1}{2}) dx = C \cdot (\frac{1}{2}+\frac{1}{2}) dx$$
Or ruga
$$C = 1$$

$$S_{3}(y) = \int_{-\infty}^{\infty} S_{3,1}(x,y) dx = \int_{-\infty}^{\infty} S_{3,1}(x,y) dx = \int_{-\infty}^{\infty} S_{3,1}(x,y) dy = \int_{-\infty}^{\infty} S_{3,1}(x,y) dx dy = \int_{-\infty}^{\infty} S_{3,1}(x,y) dy = \int_{-\infty}^{\infty} S_{3,1}(x,y) dx dy = \int_{-\infty}^{\infty} S_{3,1}(x,y) dy = \int_{-\infty}^{\infty} S_{3,1}(x,y) dx dy dy = \int_{-\infty}^{\infty} S_{3,1}(x,y) dx dy dy = \int_{-\infty}$$