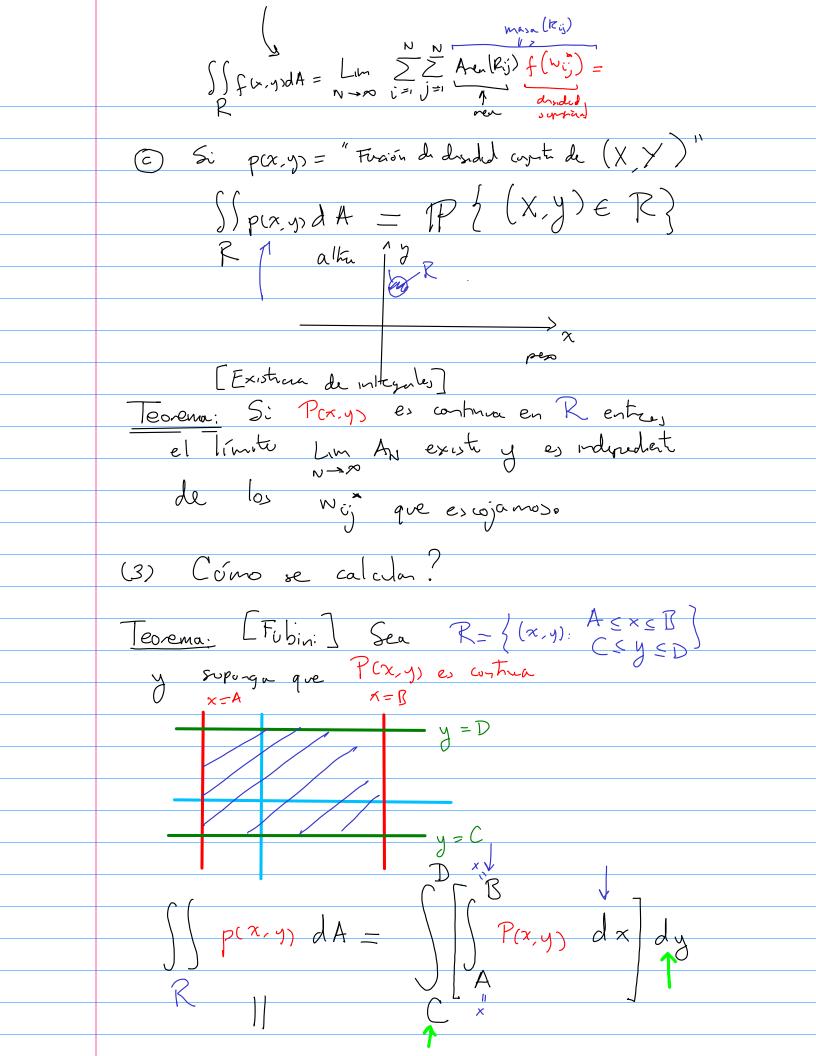


 $\iint_{\mathbb{R}} f(x,y) dA = \text{mas a total } (\mathbb{R})$ 



$$\begin{cases}
P(x,y) & dy \\
A
\end{cases}$$

$$P(x,y) = 5 - \frac{5}{100}y^2$$

$$R = \left\{ \begin{array}{c} (x,y); \\ 0 \le x \le 15 \end{array} \right\}$$

$$\int \int \left(5 - \frac{5}{100}y^2\right) dA = \int \left(5 - \frac{5}{100}y^2\right) dy dx$$

$$R = \int \left(5 - \frac{5}{100}y^2\right) dy dx$$

$$\int_{-10}^{10} \left(5 - \frac{5}{100}y^{2}\right) dy = 5.0y - \frac{5}{100}y^{2} = \frac{10}{100}$$

$$= 5 \cdot 10 - \frac{5}{100} \cdot \frac{10^{3}}{3} - \left[ 5 \cdot (-10) - \frac{5}{100} \cdot \frac{(-10)^{3}}{3} \right]$$

$$\frac{5.20 - 5.2.10^{3}}{1983} = 5.20 - 5.2.10}$$

$$= 5 \left[ \frac{20 - 20}{3} \right]$$

$$= \frac{5.20}{3} = \frac{5.20.2}{3}$$

