[1 {k)dx = 5mp 12 (})

$$N_{0} = \inf_{x \in \mathbb{N}^{0}} \chi_{1}(x) = \lambda$$

$$\lim_{x \to \infty} \inf_{x \to \infty} \chi_{1}(x) = \lambda$$

$$\lim_{x \to \infty} \inf_{x \to \infty} \chi_{2}(x) = \lambda$$

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fmang. (2)

Dem (1) & (2) = int. Riemann

$$\mathcal{R} = \begin{cases} f(x) = \begin{cases} \frac{1}{2h}, & \exists n \in \mathbb{N}^+ \text{ a.i. } x = \frac{1}{h} \\ 0, & x \neq \frac{1}{h}, & \forall n \in \mathbb{N}^+ \end{cases}$$

* D= interval precisat.

Ex2 colculati
$$\iint_{D} (y^2 + 2x^2) dx dy$$
 $D = [1,2] \times [-1,1]$
Resolvant:

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

$$=\frac{3\theta}{3\theta}=10$$

* Dru este precizat con interval oi con multime $E \times 3$ Colculati $\int \int (xy^2) dxdy$, runde $D = \{(x,y) \in \mathbb{R}^2 / y \ge x^2, y \le x^3\}$

Resolvane:

J: >> R f(x)= xy2 of continua pe D D={(x,y) + R2 | y ≥ x2, 1 4 x3 D'multimea din 12° cuprins. Intre curbelle de écuatile y=x² si y=x $\begin{cases} y \ge x^2 \\ y \le x \end{cases} \quad x^2 \le y \le x \Rightarrow x^2 - x \le 0 \Rightarrow x(x-1) \le 0 \Rightarrow x \in [0,1]$ J X e [0 11] => D Simpla Tra rap. cu axa Oy => De J (R) y => D=Inchisa J => => fint. Ruemann $\iint (x, y) dx dy = \int_0^{\pi} \left(\int_{x^2}^{x} f(x, y) dy \right) dx = \int_0^{\pi} \left(\int_{x^2}^{x} x y^2 dy \right) dx =$ $= \int_0^{\Lambda} \left(\frac{x u^2}{x^2}\right)_{x^2}^{X} dx = \int_0^{\Lambda} \left(\frac{x x^2}{3} - \frac{x x^2}{3}\right) dx = \frac{1}{3} \int_0^{\Lambda} x^4 dx$ $-\frac{1}{5}\int_{0}^{\Lambda} x^{2} dx = \frac{1}{3} \frac{x^{5}}{5}\Big|_{0}^{\Lambda} - \frac{1}{5} \frac{x^{6}}{k}\Big|_{0}^{\Lambda} = \frac{1}{15} - \frac{1}{24}$ & Schimbore de Viriabila / Goodorate Polare

$$A = \frac{1}{2}(x,y) \in \mathbb{R}^{2} / (x - \alpha)^{2} + (y - b)^{2} \leq h^{2}$$
 $(x - \alpha)^{2} + (y - b)^{2} = h^{2} \rightarrow G((\alpha, b), h^{2})$
 $f : A \rightarrow \mathbb{R} \quad f(x,y)$
 $f : \mathbb{R}^{2} \rightarrow \mathbb{R}^{2} \quad f(\mathbb{R}, \Theta) = (\mathbb{R}(\alpha, \Theta), \mathbb{R}(\alpha, \Theta))$

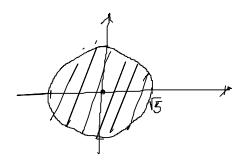
Combinity generals $\mathbb{R} \geq 0 \quad \Theta \in [0; 2\pi] / [-\pi; \pi]$
 $f : \mathbb{R}(\alpha, \Theta) = (\mathbb{R}(\alpha, \Theta), \mathbb{R}(\alpha, \Theta))$
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 $f : \mathbb{R}(\alpha, \Theta) =$

$$\begin{array}{ll}
\pm = \iint f(x,y) \, dx \, dy = \iint f(RMO), Ruin \Theta) |RdRd\Theta \\
R \neq [p,q] \\
(x,y) \longrightarrow (RMOO), R \neq [n,m]
\end{array}$$

dxdx ---> IRI of la

Rezolate:

$$x^{2} + y^{2} = 5 \Rightarrow \alpha = 5 = 0$$
 $R = \sqrt{5}$
 $\sqrt{5} = \sqrt{5}$



$$f: X \longrightarrow \mathbb{R} \quad \text{fixing} \quad X = \mathbb{R}^{x^2 + 3^2}$$

$$\varphi: \mathbb{R}^2 \longrightarrow \mathbb{R}^2 \quad \varphi(\mathbb{R}, \mathbb{G}) = (\mathbb{R} \cos \Theta, \mathbb{R} \sin \Theta)$$

A:
$$x^{2}+y^{2} \leq 5$$

B: $(R\cos\theta)^{2}+(R\sin\theta)^{2} \leq 5$
 $R \geq 0$
 $R \geq 0$

$$B = \sum_{0} 0 / 5$$
 $1 \times \sum_{0} 2$

$$= \int_{0}^{2\pi} \left(\int_{0}^{2\pi} e^{R} |R| dR \right) d\theta = \int_{0}^{2\pi} \left(\frac{1}{2} e^{S} - \frac{1}{2} e^{S} \right) d\theta = \int_{0}^{2\pi} \frac{1}{2} (C^{S} - 1) d\theta = \frac{1}{2}$$