

Integral Dupla

$$\int_0^{12} \int_1^{2} (y + xy^{-2}) dy dx$$

Pomeça com y

$$\int_0^1 \frac{y^2}{y^2} + x \cdot y^{-1} \cdot y^{-2} \cdot dx$$

$$\int_{0}^{2} \left(\frac{y^{2} - x}{2} \right) \frac{y^{2}}{y^{-1}} dx = \int_{0}^{2} \left(\frac{2^{2} - x}{2} \right) - \left(\frac{10}{2} - \frac{x}{2} \right) dx$$

$$\int_{0}^{2} \left(\frac{4}{2} - \frac{x}{2} - \frac{1}{2} + \frac{2x}{2}\right) dx = \int_{0}^{2} \left(\frac{3}{2} + \frac{x}{2}\right) dx$$

$$-(0+0) + (3+4) = 3+1 = 4$$

Coca: Cola

b-// (1+x2) dA R=(x1y) 10 < x < 1, 0 < y < 1	
11/1 1+ x2 dx dy 100 1+ y2 2 201 (m) 9 Al (7 14 11)	
$\left(\int_{0}^{1} 1+x^{2} dx\right), \left(\int_{0}^{1} 1+y^{2} dy\right)$	-
$\begin{bmatrix} x + x^3 \end{bmatrix} \begin{bmatrix} \text{carctg } y \end{bmatrix} = \begin{bmatrix} 1 + 1 \\ 3 \end{bmatrix} \text{ (ARCTG } 1 - \text{crctg } c$	<u>}</u>
$\frac{4}{3} \left(\frac{\pi}{4} - 0 \right) = \frac{\pi}{3}$	
$\iint_{R} \frac{1+x^2}{1+y^2} dA = \pi$	-
(P) = 1.8 = (P.6) + (0.0)))
Refreshing	

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$$e - \int_{1}^{4} \int_{0}^{2} (6x^{2}y + 2x) dy dx$$

$$\int_{1}^{4} \int_{0}^{2} (6x^{2}y + 2x) dy dx$$

$$\int_{0}^{2} (6x^{2}y + 2x) dx = 4 + 16y$$

$$\int_{1}^{4} (4 + 16y) dy = 132$$

$$\int_{1}^{4} \int_{0}^{2} x \left(6x^{2}y + 2x \right) dy dx = 132$$

$$\frac{d-11/2(x+e^{-r})dxdy}{\sqrt{10}}$$

$$\int_{1}^{2} (x + e^{-y}) dx = e^{-y} + 3$$

Coca: Cola

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0	•		M	J	V		S		D

$\int_{0}^{1} \left(e^{\gamma} + 3 \right) dy =$	2 e
	1: for (6,2,,2,) dy dx
] 2 (x+e-y) dx dy -	5-1 312 P. e. b. (xxx , 5) 21
	14 (421 16) AJ
	- (EL + AP (BB) + F) 4d
13.2	1. July 2 16 x 2 y + 2 x 3 de do
	11 /2 /x = e -x) didi
	1000 (4.0.2) 70.01
	12 (x + e >) dx = e > 4 . 3