EN AMI LEI + BE 2024/2015

0

1) 
$$\frac{1}{(2n-1)(2n+1)} = \frac{1/2}{2n-1} = \frac{1/2}{2n+1}$$

Série de Margoli c/  $b_n = \frac{1/2}{2n-1}$  e  $t = 1$  (pg  $2(n+1) - 1 = 2n+2 - 1 = 2n+1$ )

Li  $b_n = \frac{1/2}{2n-1} = 20$ ,  $c_0 = 2$  éxie.

Carry:

Some:  $b_1 - 1 \cdot 0 = \frac{1/2}{2-1} = \frac{1/2}{2}$ .

2) 
$$|C_{1}|^{2} \frac{(n+1)^{2}}{3^{n}}|^{2} \frac{(n+1)^{2}}{3^{n}}|^{2}$$
 $|C_{1}|^{2} \frac{(n+2)^{2}}{3^{n}}|^{2} \frac{(n+2)^{2}}{3^{n}}|^{2} \frac{3^{n}}{(n+2)^{2}}|^{2} \frac{3^{n}}{3^{n}}|^{2} \frac{(n+2)^{2}}{(n+2)^{2}}|^{2} \frac{n}{3^{n}}|^{2} \frac{n}{3$ 

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3)  $\lim_{n\to\infty} \frac{|x+5|^n t}{n+2} = \lim_{n\to\infty} \frac{nt}{nt^2} \cdot |x+5| = |x+5|$ 1x+5/<1 (e) -1 (x+5 <1 (e) 6 (x < -4 1×+51 < 1 =)

can abs.

can abs.

-5, R = 1. X2-4. \( \frac{1}{2} \left( -4+5) \) = \( \frac{1}{2} \) \( \frac{ X2-6: 2 (-6+1) 2 = C-1) Simple conv.

Non non non (s. home alt 4) De = ax (x,y) = R21 = 2x+34 >0 x 2x-34 +0 }= {(x,y) = R?: 2x+3y>0 1 2x-3y>0 0 { (x,y) \in \mathbb{R}^2: 2x+3y \left\ 0 \ 2x -3y 20 \. 1111b X THH X

2x + 3y zo

$$FN \text{ AMT LEF + BE}$$

$$7074/7\Gamma$$

$$5)^{a)} \begin{cases} (a_{1}a) = \frac{1}{16} & \text{f}(f_{1}a) - f(f_{1}a) = \frac{1}{16} & \text{o} - \frac{1}{16} \\ \text{f}(f_{1}a) = \frac{1}{16} & \text{f}(f_{1}a) - f(f_{1}a) = \frac{1}{16} & \text{o} - \frac{1}{16} \\ \text{f}(f_{1}a) = \frac{1}{16} & \text{f}(f_{1}a) = \frac{1}{16} & \text{f}(f_{1}a) = \frac{1}{16} \\ \text{f}(f_{1}a) = \frac{1}{16} & \text{f}(f_{1}a) = \frac{1}{16} & \text{f}(f_{1}a) = \frac{1}{16} \\ \text{f}(f_{1}a) = \frac{1}{16} & \text{f}(f_{1}a) = \frac{1}{16} & \text{f}(f_{1}a) = \frac{1}{16} \\ \text{f}(f_{1}a) = \frac{1}{16} & \text{f}(f_{1}a) = \frac{1}{16$$

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 $\begin{cases} c_{1} & \nabla f(x_{1}y) = (q_{0}) \\ (q_{0}) & (-6y + 6x), \end{cases} \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q_{0}) \begin{cases} c_{1}y^{2} - 6x \\ c_{2}y^{2} - 6x \end{cases} = (q$ 

Ptc. estar (0,0),(1,1)All f(x,y) = (-6)12y

 $H_{f}(6,0) = (6-6) \quad H_{f}(9,0) = -36 \ge 6$   $f = 6 \quad 0 \quad \text{pt. d. sele}$ 

 $H_{\xi}(1,1) = \begin{cases} 6 - 6 \\ -6 \end{cases}$   $h_{\xi}(1,1) \ge 3/26$   $h_{\chi_{\chi}}(1,1) \ge 6 > 6$   $m_{1}n_{1}, l_{old}$ 

EN AMI LEI 13R



7 a) D= {(x,y) + R2: 0 \in X \in 1 \lambda 0 \in 9 \in X^2 + 1)}

 $y = x^{2} + 6 \times x^{2} = y - 1 \quad (x) \quad x = \pm \sqrt{y - 1}$ 

Dz ((x,y) + R 1 0 E X E1, 0 E Y E1) U {(x,y) + R 2; \(\sqrt{y} - 1 \) \(\xet{x} \) \(\xet{x} \) \(\xet{x} \)

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$$\frac{d|^{a}|}{2} = d - 4x - 1y$$

$$x = y^{20} : \frac{1}{2} = d$$

$$x = t^{20} : y = 4$$

$$y = t^{20} : x = 1$$

$$(1, 2, 0), (0, 4, 0), (0, 0, 0)$$

$$t = (1, 2, 0), (0, 4, 0), (0, 0, 0)$$

$$t = (1, 2, 0)$$

$$t = (1$$

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(at de d')  $\int_{3}^{2} 2y^{2} - 4y + d dy = \frac{2y^{3}}{3} - \frac{2y^{2} + dy}{3} \Big|_{0}^{2} = \frac{16}{7} - d + \frac{16}{2} = \frac{46}{3}$  $g^{21}$   $\chi^{2}$   $ty^{2}$   $ty^{2}$  tygo) (and cilindrices: X= 2001, y= 18et, 2=2 Jacobiano za X2+y=12

This 2-12

This 2-12  $\iiint (x^{2}+y^{2})^{\frac{3}{2}} dt = \iiint (x^{2}+y^{2})^{\frac{3}{2}} dt$