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$$y = \sqrt{x^2 - 2x^2} \quad [2;4]$$
 $\begin{cases} y > 0 & y^2 - x^2 + 2x = 0 \\ x^2 - 2x > 0 & y^2 - x^2 + 2x + 1 - 1 = 0 \\ y^2 = x^2 - 2x & y^2 - (x - 1)^2 = -1 \end{cases}$ 
 $\begin{cases} y > 0 & y^2 - x^2 + 2x + 1 - 1 = 0 \\ y^2 = x^2 - 2x & y^2 - (x - 1)^2 = -1 \end{cases}$ 

$$(x-1)^{1}-y^{2}=\lambda$$
 $(x-1)^{1}-y^{2}=\lambda$ 
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$$\int_{X^{2}-2x}^{2} C.E \times COUX \gg 2$$

$$\int_{0}^{1} \int_{0}^{1} \frac{1}{2 \sqrt{x^{2}-2x}} = \frac{1}{\sqrt{x^{2}-2x}} = \frac{1}{\sqrt{x^{2}-2x}} = \frac{1}{\sqrt{x^{2}-2x}}$$

[2;4]
$$\lim_{X \to X0} f(x) = f(x)$$

$$= \frac{1}{2 \sqrt{x^2 - 2x}} (2x - 2) = \frac{x - 1}{\sqrt{x^2 - 2x}}$$

$$\int_{0}^{1} \frac{1}{2\sqrt{x^{2}-2x}} \left( 2x-2 \right) = \frac{1}{\sqrt{x^{2}-2x}} \left( 2x-2 \right) = \frac{x-1}{\sqrt{x^{2}-2x}} \qquad x \neq 2 \longrightarrow Sociolisfo$$

$$\exists c \in (2;4) / \frac{g(4)-g(2)}{4-2} = \frac{g'(c)}{4-2}$$

∫(c)=18-0 12= ∫(c)

$$\frac{1}{\sqrt{x^2-2x}} (2x-x) = \frac{x-1}{\sqrt{x^2-2x}}$$

$$\frac{1}{\sqrt{x^2-2x}} (3x-x) = \frac{x-1}{\sqrt{x^2-2x}}$$

$$\frac{1}{\sqrt{x^2-2x}} (3x-x) = \frac{x-1}{\sqrt{x^2-2x}}$$

$$\frac{1}{1 \times x^{2}-2x} (2x-2) = \frac{x-1}{1 \times x^{2}-2x} \times \frac{x+1}{1 \times x^{2}-2x}$$

U= √...-Xº CIRCOUF -KXº ELLISSE

+KX21PERB.

$$U = \sqrt{(1+\sqrt{2})^2 - 2(1+\sqrt{2})} = \Delta \qquad P(1+\sqrt{2};1) \ *$$

1(x) DERIVABLE IN (-2;0) U(0;1)

3 ce(-2;1) / 3(1)-f(-2) = 1'(c)= 2/3

5° (0)=-1

 $3'(c) [-2;0]: \frac{-4}{(x-2)^2} = \frac{2}{3} \Rightarrow \emptyset$ 

31(c) [0;1] : 8x-1= 3/3

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$$f(x) \begin{cases} \frac{4}{x-2} & -2 \le x < 0 \\ 4x^2 - x - 2 & 0 \le x \le 1 \end{cases}$$

 $\lim_{X\to 0_{-}} J(x) = \lim_{X\to 0_{+}} J(x) \to -2 = -2$   $J(x) \in \text{continua in } [-2;0) \cup (0;4]$  J(0)=2

 $X=0 \qquad \int_{-\infty}^{\infty} (o)_{z} -4 \left( \frac{1}{X^{2}} - 4X + 4 \right) = -1$ DERIVABILE

I = [-2;1]

$$\int_{0}^{\infty} (x) = \begin{cases} \sqrt{1-x} & -8 \le x < 0 \\ \sqrt{2} + b \times 1 & 0 \le x \le 1 \end{cases}$$

$$f(x)$$
 continuo in  $[-8;1]$   
 $f(x)$  continuo  $[-8;0] \cup (0;1] \rightarrow f(x)$  nono continue  
 $x=0$  fin  $-1=\lim_{x\to 0^+} f(0)=1$ 

$$\int_{0}^{1} (x) = \begin{cases} \frac{-1}{2\sqrt{1-x}} & -8 \le x \le 0 \\ 2ax + b & 0 \le x \le 1 \end{cases}$$

$$f'(0) = f'(0) \longrightarrow -\frac{1}{3} = b$$
  $b = -\frac{1}{3}$ 

$$f_{-6}(-8) = f_{-6}(1)$$

$$f(-8) = f(1)$$
  
 $3 = 0 - \frac{1}{2} + 1$   $0 = \frac{5}{2}$   $0 = \frac{5}{2}$