TN Serie :

re should not be o on 1

=> rc should mot loe 2-1.1=1

$$3) \left\{ 3 \left(\times \right) = \frac{\ln(x)}{\left(\times \right) - 4} \right\} \leftarrow 0$$

$$\begin{cases} 34(x) = \sqrt{|x+2|} - |3x - 4| \\ (2) \sqrt{|x+2|} - |2x - 4| \geq 0 \end{cases}$$

$$\mathbb{T} - \mathbb{Z}^m = \frac{\mathbb{Z}^{m+1}}{m+1}$$

ex:

$$f(x) = 5x^4$$
, $F(x) = 5x^5 = x^5$.) To Verify the process.

$$1)$$
 $\{(x) = \frac{3}{2}, F(x) = \frac{3}{x}$

2)
$$f(x) = \frac{5}{x^2} \Rightarrow F(x) = \frac{5}{5} \cdot \frac{1}{5} \cdot \frac{1}{$$

$$F(x) = -\frac{S}{NL}$$

3)
$$f(x) = 4x - \frac{1}{x^2} = 5F(x) = \frac{4x^2}{9} + \frac{1}{x}$$

1)
$$f(x) = \frac{2}{x} = -2 \frac{1}{x}$$
, $F(x) = -2 \ln(x)$.

3)
$$f(x) = \frac{3}{100} + \frac{1}{100} = 3 \cdot \frac{1}{100} + \frac{1}{100}$$

=> $f^{-1}(x) = 3 \ln(x) - \frac{1}{100}$

1)
$$f(x) = xe^{x} = \frac{12x}{2} = \frac{x^{2}}{2}$$

Fonction u'u" & n # - 1	Une primitive.
250	V U
11'eu 11'eu 11'eu 11'eu 11'sin(11)	h(U) eU Sin(U) - cos(U)

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

$$(x^2+1)'' = 2x^2 \cdot 50 \text{ let's odd } 2.$$

2)
$$f(x) = \cos(2x) - 3\sin(3x - 1)$$

0 (oc (2x) - \sin (2x)

$$= -5i \left(2x\right) + \cos\left(3x - 1\right)$$

methode 2%

=>
$$F(x) = \frac{1}{2} \sin(2x) + \cos(3xc-1)$$

$$3)$$
 $\{(x) = \frac{3x}{x^2+2} = \frac{3}{2} = \frac{2x}{x^2+2} = \sum_{x=2}^{2} F(x) = \frac{3}{2} \ln(x^2+2)$

Integnole.

I) Integration pon Portie:

Soit La formule suionte?

V = x V' = 1. U' = Sin(x) U = -CBS

A=aoc-(b.cdx.

= s A = - sc cos(x) - (-cos(x) dx $= - x \cos(x) + \cos(x) = - x \cos(x)$ = -re cos(x) + Sin(x) + C

c = s constante

Sevie Amoryse n°3;

3)
$$\int \sin(3t) dt - \frac{1}{3} \sin(3t) + c$$

4)
$$\int (1+\cos(t))^2 dt = \frac{1}{3} (1+\cos(t))^3 + C$$

6)
$$t^{2}e^{2t^{3}+1}$$
 off.
where $t^{2}e^{2t^{3}+1}$ = $e^{2t^{3}+1}$ = $e^{2t^{3}+1}$ = $e^{2t^{3}+1}$

whendian por partie ?. $U = e^{2t^3} + 1$. $U' = 6t^3 e^{2t^3} + 1$. $U' = \frac{1}{3}3t^2$, $U = t^3$ $U' = \frac{1}{3}3t^3 + 1$. $U' = 6t^3 + 1$.

