TN Serie:

re should not be o on 1

=> rc should mot loe 2-1,1=1

$$2 \int_{\mathbb{R}^{2}} \left( \times \right) = \frac{\ln(x)}{\mathbb{R}(x^{2}) - 4} = 0$$

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

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

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) 
$$f(x) = \frac{5}{12} \Rightarrow F(x) = \frac{5}{5} \cdot \frac{1}{32}$$
 prim)

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

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

$$= 2x^2 + \frac{1}{x^2}$$

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

2) 
$$f(x) = He^x$$
,  $F(x) = He^x$ 

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

Fonction u'u" & n # - 1	Une primitive.
1 2 VILL  1 1 2 VILL  1 1 2 VILL  1 3 VILL  1 2 VILL  1 3 VILL  1 3 VILL  1 3 VILL  1 4 VILL  1 4 VILL  1 5 VILL  1	M(U)   el   Sin (U)   - cos (U)

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

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

methade 2%

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

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

Integnole.

I) Integration pon Portie:

Soit La formule suionte?

A= ) se sin(x) dx

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

A=aoc-(b.cdx.

= SA = -Sc cos(x) - (-cos(x) dx $= - x \cos(x) + \cos(x) = - x \cos(x)$ 

= -re cos(x) + Sin(x) + C

c = s constante