Bréa trèm Bai 1.17 - 1 d 1.18 - 9 1 d 1.19 - 9 1 d 1.20 - 1 d 1.21 - 9 1 d 1.22 - 9 3 d

1.23 - 2 t

$$\sum_{i=1}^{\infty} f(x_i) = 1$$

$$\frac{\chi=0}{2} \frac{\varphi}{2^{2}} = 1$$

$$Aat A = \sum_{x=0}^{9} \frac{1}{z^{x}} = 1 + \frac{1}{2} + \frac{1}{4} + \cdots$$

$$\Rightarrow$$
  $A = 2$ 

$$P(274) = 4 - P(224) = 1 - P$$

$$P(279) = 1 (\frac{1}{24} + \frac{1}{25} + \frac{1}{26} + \cdots)$$

$$P(279) = 1 (\frac{1}{24} + \frac{1}{25} + \frac{1}{26} + \cdots)$$

$$= \frac{1}{2^5} + \frac{1}{2^6} + \frac{1}{2^7} + \dots = 8$$

$$-32.8 = \frac{1}{24} + \frac{1}{25} + \frac{1}{26} + \frac{1}{27} = \frac{1}{24} + B$$

$$= 38 = \frac{1}{24} = \frac{1}{16}$$

$$Vary P(x74) = \frac{1}{16}$$

Bai 1-18

$$\int_{-\infty}^{+\infty} f(x) dx = 1 = 1 \int_{-\infty}^{\infty} kx^2 dx = 1$$

$$= 1 \quad \text{le.} \left( \frac{23}{3} \right)^{\frac{3}{5}} = \frac{1}{5}$$

$$= \frac{3}{5^3} = \frac{3}{125}$$

Ham phan bo tich lung F(x):

$$F(x) = \int_{-\infty}^{\infty} f(x) dx = \int_{-\infty}^{\infty} f(x) dx$$

New 
$$x_0 \leq 0 \Rightarrow F(x_0) = 0$$
  
New  $0 \leq x_0 \leq 5 \Rightarrow F(x_0) = \int_0^{\infty} kx^2 dx$ 

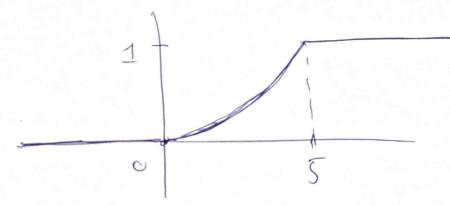
$$= k(\frac{2}{3})^{2}) = \frac{k}{3} \cdot \frac{2}{3} = \frac{1}{125} \times \frac{3}{3}$$

New 
$$20,75 = 7 + (x_0) = \int_0^5 kx^2 dx = 1$$

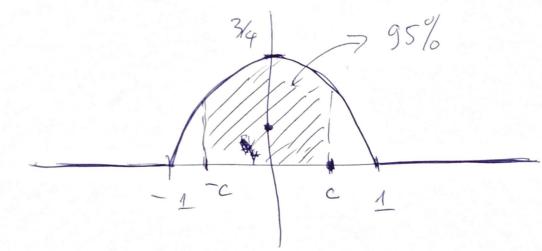
Vay 
$$F(n) = \begin{cases} 0 & \text{new} & 9 \le 0 \\ \frac{23}{125} & \text{new} & 0 < 2 \le 5 \end{cases}$$

$$\frac{1}{125} \text{ new} & 2 > 5$$

Ve hinh



Ban 1-19



L= 200 + x

=) 
$$\int_{-\infty}^{\infty} f(x) dx = \frac{3}{4} \int_{-\infty}^{\infty} (1-x^2) dx = 0,95$$

$$= \frac{3}{4} \left[ \left( \frac{2}{3} - \frac{2^{3}}{3} \right) \right]^{1} = 0,95$$

$$= \frac{3}{4} \left[ \left( \frac{2}{3} - \frac{2^{3}}{3} \right) \right]^{1} = 0$$

$$= \frac{3}{4} \left[ \left( \frac{2}{3} - \frac{2^{3}}{3} \right) \right]^{1} = 0$$

B+ 3-4  $f(x) = \begin{cases} 0 & \text{new} \\ 3x & \text{new} \end{cases} \approx 0$ = f(x) = 0 név & < 0 Néw y 70 ta cé:  $F(y) = \int_{-\infty}^{\infty} f(x) dx = G(y) - G(0)$ troy dx'  $G(x) = \int f(x) dx : la reguyers ham cua <math>f(x)$ Taco:  $G(y) - G(x) = 1 - e^{-3y} = -e^{-3y} - (-e^{3.0})$ = 3x $=) f(x) = G'(x) = -e^{-3x} \cdot (-3) = 3e^{-3x}$ Vay  $f(x) = \begin{cases} 0 & \text{here} & 96 \leq 0 \\ 3 & \text{e} & -32 & \text{here} & 96 > 0 \end{cases}$ F(y) = 0.9 =(y)=0.9=-3y=0.92) e -37 = 0·1  $= \frac{1}{3} - 3y = \ln(0.1) = \frac{1}{3} = \frac{1}{3} = \frac{0.768}{3}$ 

$$F(x) = \begin{cases} (x^2 - 4)/5 & \text{new} & 2 \le x < 3 \\ 1 & \text{new} & x > 2 \end{cases}$$

$$P(2.5 \le x \le 5) = F(5) - F(2.5)$$

$$= 1 - \frac{2.5^2 - 4}{5} = 0,55$$

$$= 1 - \frac{2.5^2 - 4}{5}$$

$$\begin{array}{l} \delta_{ai} \ 1.23 \\ \times = \chi . 10000 \ (ga \, lon) \\ \lambda_{x} = \int_{x}^{2} f(a) \, dx = \int_{x}^{2} f(a) \, dx \\ = \int_{x}^{2} \left[ (x^{2} - x^{3}) \right] \, dx = \left[ \left( \frac{23}{3} - \frac{29}{9} \right) \right]^{\frac{1}{2}} \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] = \frac{1}{2} \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] = \frac{1}{2} \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] + \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] + \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] + \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] + \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] + \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] + \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] + \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] + \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] + \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2} \left[ \left( \frac{1}{3} - \frac{1}{4} \right) \right] \\ = \int_{x}^{2}$$