ANL-13 (2) mer /f"(x)/<2, ESO, Q, b=R(Q, 6) Policagny of flata stoingm weren trapezón (60 many f")  $I(g) = t_n(f) + R_n^T(g)$   $I_n(g) = h_{n=0}^{27} f(t_n), R_n^T(g) = \frac{-(6-a)h}{12} f''(n)$ Cogli musimy utalic n  $|R_{n}T| = \left| \frac{-(b-a)^{3}}{12n^{2}} \int_{0}^{11} |R_{n}T| \right| \left| \frac{(b-a)^{3}}{12n^{2}} \cdot 2 \right| = \frac{(b-a)^{3}}{6n^{2}} < \varepsilon$  $n^2 > \frac{(b-\omega)^3}{6E} \neq m$  mile Algorytm:  $n := \sqrt{(6-a)^3} \sqrt{8}$ sufit  $h := \frac{6-e}{n}$   $T := h \sum_{k=0}^{n} f(t + k)$ 

Zhróc T

(B) 
$$\int \cos(3x - \pi/3) dx$$
,  $S_n - w \ne 0$   $S_{inposone}$ ,  $R_n = \frac{h^4}{180} (b-a) f^{(4)}(n)$ 
 $S_n - w \ne 0$   $S_{inposone}$ ,  $S_n - w \ne 0$   $S_{inposone}$ ,  $S_n - w \ne 0$   $S_{inposone}$ ,  $S_n - w \ne 0$   $S_n - w \ne 0$ 

$$cos > -sin > -cos - sin > cos$$

$$f(4)(x) = cos(3x - \frac{7}{3}) \cdot 3^{4}$$

$$b - ce = \frac{7}{10} \frac{11}{11}$$

$$R_{n} = \frac{7}{10^{5} \cdot 3^{4}} = \frac{7^{5} \cdot 7^{5} \cdot 3^{4}}{10^{5} \cdot 180n^{4}} \leq 10^{-8}$$

6 Momy policy of  $T_{11,0}$ . We do set furthy i pot mely any blo policiens piews rej bolumy.  $T_{11,0}$  order in  $T_{211}$   $X_{0}, X_{1}, \dots, X_{2048}$  - 2048 publish Y = b  $h = \frac{b-e}{n} = \frac{5}{2048}$   $n = 2^{11} = 2048$  -1 = 0

 $X_i = -4 + h_i$   $= -1 + \frac{5}{2048}i$ 

FTOK = Tak

[TM4 = 4m Tm-1k+1 - Tm-1k

7m-1 Chienny poloze é, ze vigg elementés shorting holming jest zbiezny blo Sf(x) D-d (inolatige po m): Dhe m= 0 many thirony was troperable to poholismy is Zaolania 1, ze zbiego lim To, n = I = Sf(x)dxZahraslang se ciag elementsir (m-1)-holung stregg de Struss Pohereny , ze m to ciag elementsir (m)-tej stregge de I lim Tm, le = 4th lim(Tm-16+1) - lim(Tm-1/4) h > 00  $= \frac{4^{m} I - I}{4^{m} - 1} = \frac{(4^{m} - 1) I}{4^{m} - 1} = I$