B-1 Pagnonuero 6 pieg Pyroc goynusce PTPN3. f(x)=2+1x1, jagarnyro na ompeg. I-1;1J. T=2 Уункуше rémuaie Les Pypoe uneer bug!

Alx)= 20 + 2 ancos In X

n=1 Borricum ao u an: · ao = { f(x)-dx ·an = { flx cos Inx 1= = 1

* ao = 7] (2+1x1)dx = 5, 2 dx + 5, 1x1 dx $=4+\int_{0}^{2}\int_{1}^{2}-X\,dX = 4+\int_{0}^{2}\int_{0}^{2}\int_{0}^{2}$ = 4+ 8 = 5 + an = 4 5 (2+1X1) cos Inx dx = $\int_{0}^{\pi} 2 \cos \pi x \, dx + \int_{0}^{\pi} |x| \cos \pi x \, dx =$ = Z=JInx, dz=JIn, = 2 scostinx · Jindz = 2 s cos(z) · In dz = 2 (sin IIn-sin(-IIn = In · 2 sin In = 4 sin In

\$ 1x1 cos Jin xdx= \six x cos Jin xdx = | u=x, du=dx, | dv = cos IIn x dx, Im = = | U = -X, du = -dX, $| V = \frac{\sin \pi n \times \sin x}{\pi n}, dv = \cos \pi n \times dx$ - Sin Finx 1-1 -> Sin Tinx dx J X SIN JIN X 10 > J SIN JIN X X S Sin In x dx = In Sin In x dx = = t= Jnx, State t'= Jn = 1 = In Sin (Inx) Indt - 12/2 / 8in Th In 2

 $= \frac{1}{\pi^2 n^2} \left(-\cos t \right) = -\frac{1}{\pi^2 n^2} \cos \pi n \times \frac{1}{\pi^2 n^2$ 2 - 0-sino + (-1) sin(-IIn) + 1 - coso + + (- # 2/12 cos (- T/n)) 80n Trn - osino + Aznz cos Trn -00050 72p2 2 (- 8in T/n + 1/2n2 - COSTIN / 1/2n2 9 81 n T/n + 1/2 n 2 cos Th > 25intin + fina

on = $\frac{4\sin \pi n}{\pi n} + \frac{2\sin \pi n}{\pi n} + \frac{1}{\pi^2 n^2} = \frac{6\sin \pi n}{\pi n} + \frac{1}{\pi^2 n^2} = \frac{1}{\pi n}$ $f(x) = \frac{5}{2} + \frac{1}{n=1} \left(\frac{6\sin \pi n}{\pi n} + \frac{1}{\pi^2 n^2} \right)$ Orbern:

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