CA4141

$$f(x) = x^{2}, -\pi \leq x \leq \pi$$

$$f(x) = x^{2}, -\pi \leq$$

$$a_{n} = \frac{1}{\sqrt{11}} \left(\frac{11}{\sqrt{200}} (n \times) d \times \frac{1}{\sqrt{11}} \right)$$

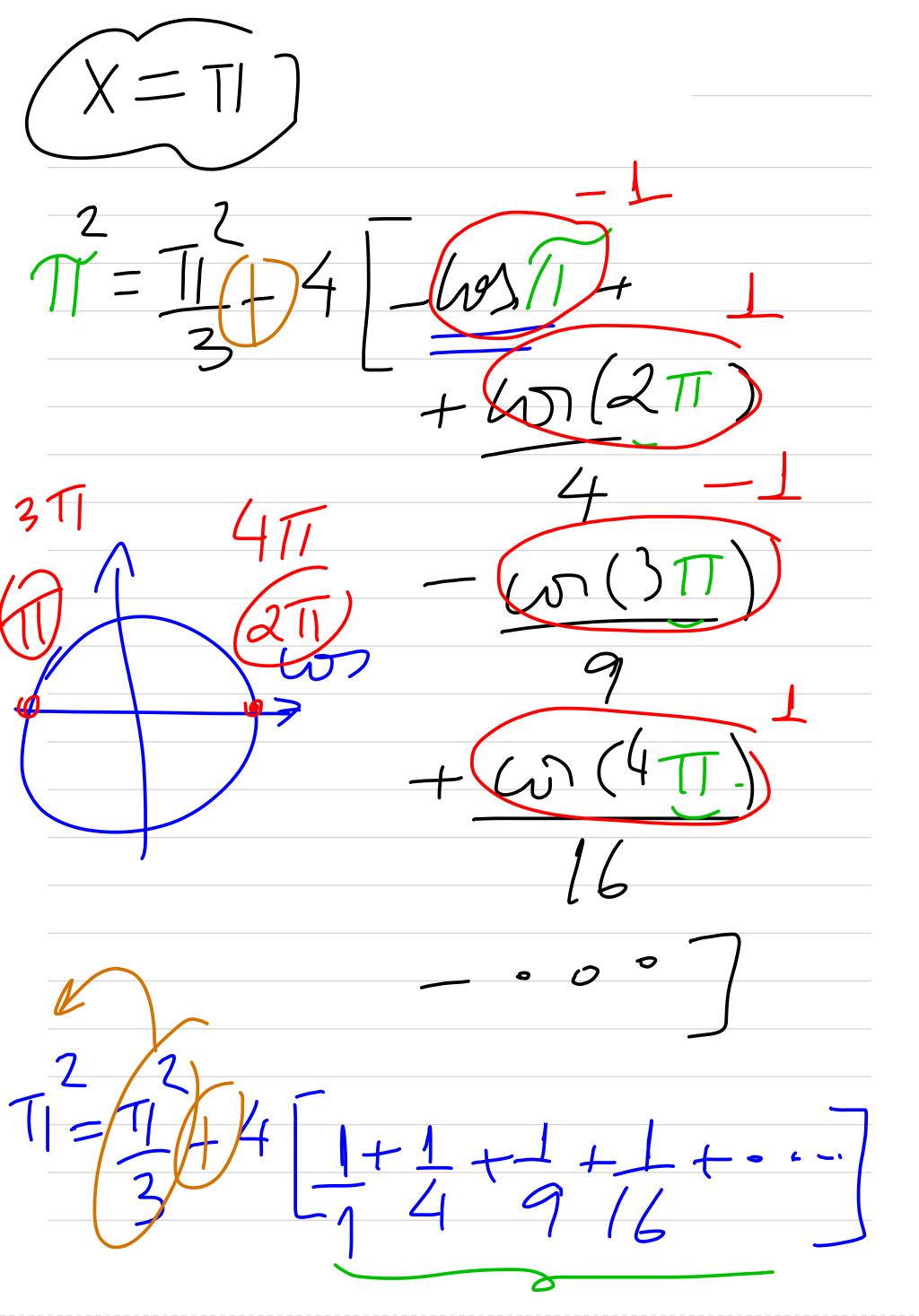
$$a_{n} = \frac{1}{\sqrt{11}} \left(-1 \right)^{n} \frac{4\pi}{\sqrt{11}}, \quad n \ge 1$$

$$a_{n} = (-1)^{n} \frac{4\pi}{\sqrt{11}}, \quad n \ge 1$$

$$a_{n} = (-1)^{n} \frac{4\pi}{\sqrt{11}}, \quad n \ge 1$$

$$a_{n} = \frac{2\pi}{\sqrt{11}}$$

Unie de fourier 2 = 100 100 100 10069)(n-) $\frac{1}{3}a_0 + \frac{1}{2}a_n$ 2712 - 5 (-1) 4/09 (nx)



6 N=1 NB 10 Ma

dos dois fados de I maldade (4)

 $\left(x^{2}-1\right) dx = 4\left(\frac{1}{2}\right) \left(x^{2}-1\right) dx$ =45(-1) (6) X7-72 X-47(1) Ab (nx) + C 3 3 X=0=> C=0

$$f(x) = |x|, \quad -\pi \leq x \leq \pi$$

$$f(x) = |-x| = |x| = f(x)$$

$$f(-x) = |-x| = |x| = f(x)$$

$$\begin{array}{c}
f pan \Rightarrow bn = 0, \forall n \geq 1 \\
a_0 = \frac{1}{17} \left(\frac{1}{12} \right) dx
\end{array}$$

$$|Y| = \begin{cases} x & x < 0 \\ y = -x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & y = x \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

$$|Y| = \begin{cases} x & x < 0 \\ 0 & x < 0 \end{cases}$$

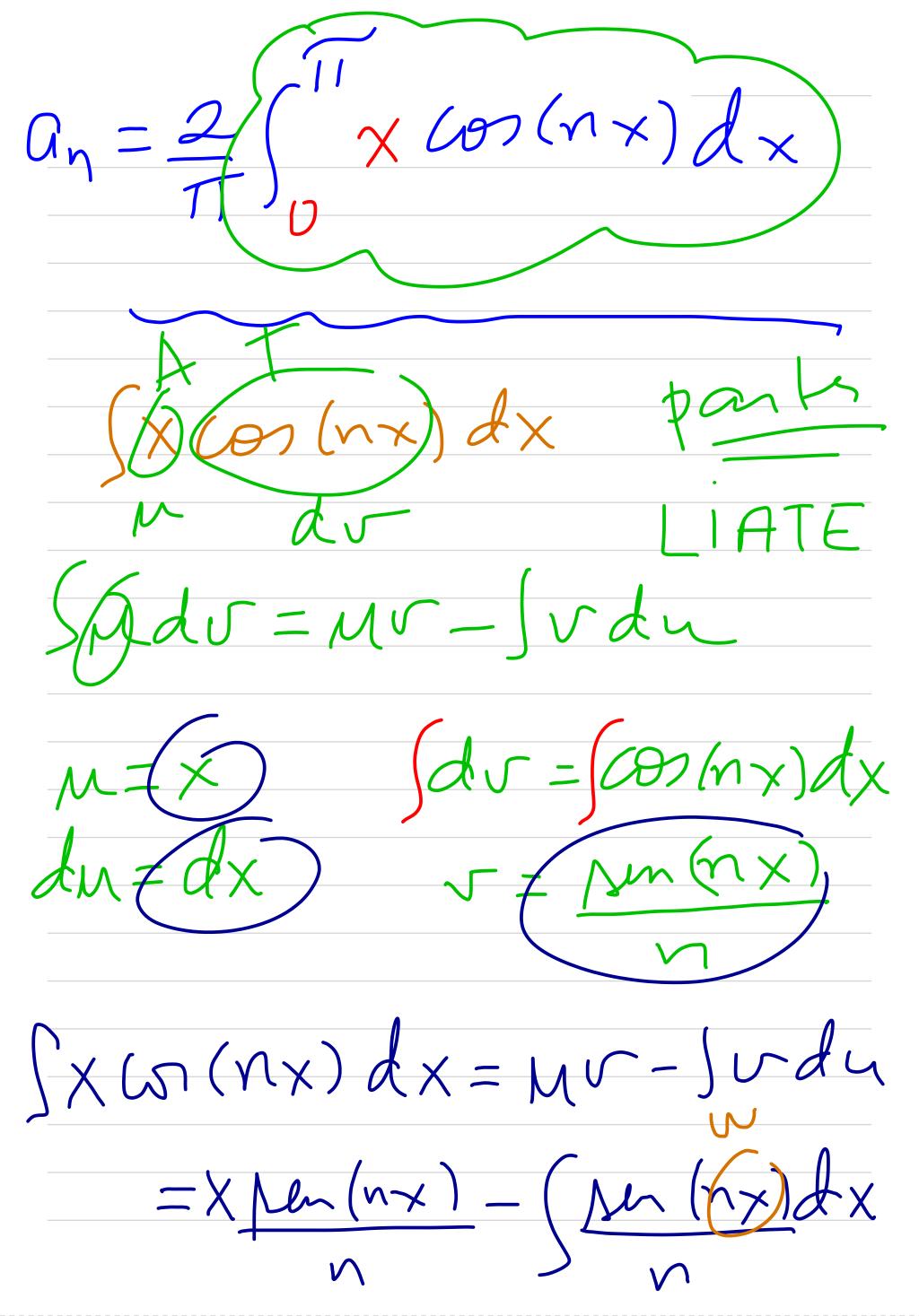
$$|Y| = \begin{cases} x & x < 0 \\ 0$$

$$a_n = \frac{1}{\pi} \int_{-\pi}^{\pi} \frac{1}{(x)(x)} \frac{1}{(x)(x)} dx$$

$$\int (-X)(x)(nx)dx$$

$$-T_1 = \int (x)(x)(hx)dx$$

 $\int |X| \, \mathrm{tr}(nx) \, dx$ $= (2) \int \mathrm{tr}(nx) \, dx$ $= (2) \int \mathrm{tr}(nx) \, dx$



 $= \times \mu(nx) - \mu(\mu hx)dx$ -XMm(nx)_I (Mmwdw) $= \frac{\chi \ln(n\chi)}{n} - \frac{1}{n}(-\omega s \omega)$

 $= \frac{\chi \ln(n\chi) + \ln(h\chi)}{\chi}$

$$a_{n} = \frac{2}{17} \left[\frac{(N_{N} - N_{N})}{N} + \frac{(N_{N})}{N^{2}} \right]$$

$$a_{n} = \frac{2}{17} \left[\frac{(N_{N} - N_{N})}{N} + \frac{(N_{N} - N_{N})}{N^{2}} + \frac{(N_{N} - N_{N})}{N^{2}} \right]$$

$$a_{n} = \frac{2}{17} \left[\frac{(N_{N} - N_{N})}{N} + \frac{(N_{N} - N_{N})}{N^{2}} \right]$$

$$a_{n} = \frac{2}{17} \left[\frac{(N_{N} - N_{N})}{N} + \frac{(N_{N} - N_{N})}{N^{2}} \right]$$

houf in enter de Forne duf=1X1 = 2 (0) 211

$$\frac{GG(n\pi)-1=0}{(Mnpan)}$$

$$\frac{GG(n\pi)-1=-2}{(Mn\pi)-1=-2}$$

$$\frac{2(-2)}{17} = -4$$
 $\frac{2(-2)}{17} = -4$
 $\frac{2}{17} = \frac{2}{17} = \frac{$

Dirie de Fourier (x) = |X| n7/ 21+1

(5 Mon 4500 $(2n-1) \times$ 21-+ 601