ル(型)th (型) th = 는 [Los(型) th (型) th

$$\int_{\mathbb{R}^{2}} \frac{1}{2} \int_{\mathbb{R}^{2}} cos(\frac{\pi}{24}) \sin(\frac{\pi}{24}) dt = \frac{1}{2} \int_{\mathbb{R}^{2}} \frac{1}{2} \cos(\frac{\pi}{24}) dt = \frac{1}{2} \int_{\mathbb{R}^{2}} \frac{1}{2} \cos(\frac{\pi}{24}) dt = \frac{1}{2} \left[\frac{1}{2} \cos(\frac{\pi}{24}) dt + \frac{1}{2} \left[\frac{1$$

 $c_{0} = \sum_{i=1}^{n} \left[-\frac{1}{n} \cdot (-i)^{n} - \left(-\frac{1}{n} \right)^{n} \cdot (-i)^{n} \right] = 2 \cdot \left[-\frac{1}{n} \cdot (-i)^{n} - \frac{1}{n} \right]$ $= \frac{\pi}{n} \cdot \left[-\frac{1}{n} \cdot (-i)^{n} - \left(-\frac{1}{n} \right)^{n} \cdot (-i)^{n} \right] = 2 \cdot \left[-\frac{1}{n} \cdot (-i)^{n} - \frac{1}{n} \right]$ $= \frac{\pi}{n} \cdot \left[-\frac{1}{n} \cdot (-i)^{n} - \left(-\frac{1}{n} \right)^{n} \cdot (-i)^{n} \right] = 2 \cdot \left[-\frac{1}{n} \cdot (-i)^{n} - \frac{1}{n} \cdot (-i)^{n} \right]$ $= \frac{\pi}{n} \cdot \left[-\frac{1}{n} \cdot (-i)^{n} - \left(-\frac{1}{n} \right)^{n} \cdot (-i)^{n} - \frac{1}{n} \cdot (-i)^{n} \right]$ $= \frac{\pi}{n} \cdot \left[-\frac{1}{n} \cdot (-i)^{n} - \left(-\frac{1}{n} \right)^{n} \cdot (-i)^{n} - \frac{1}{n} \cdot$

$$= \left(\cos(H) \cdot \left(\frac{10 \cdot 1}{1} + \frac{1}{10 \cdot 1} \right) = \frac{10 \cdot 1}{30} \cdot (CI)^{1} H \right)$$

$$=\frac{2}{L}\cdot\left[-\frac{L^{2}}{m}\cdot\left(-1\right)^{n}-\left(\frac{L}{m}\right)^{2}\cdot\left(-1\right)^{n}\right]=2\left(-1\right)^{n}\cdot\left[-\frac{L}{m}-\frac{L}{con}\right]$$

4. $(t_1 = U_{MX}, t_2, -2 \le t \le 2, U(-2,t) = U(2,t), U_{X}(-2,t) = V_{X}(2,t), U(0,0) = cos(\frac{1}{2}) + sin(m)$

(st u=x·T
$$\longrightarrow$$
 x·T'=x*T \longrightarrow $\frac{X''}{X}$ = $\frac{T'}{T}$ =- λ \longrightarrow x"+ λ X=0, T'=- λ T

(1) T= e^{-Xt}

(2) $\chi^a + h \chi = 0$, Q h = 0, $\chi(x) = adth \longrightarrow \chi(-2) = \chi(x)$, $-2ath = 2ath \longrightarrow a = 0$, $\chi(-2) = \chi(x)$, $a = a \longrightarrow \chi_a = 1$

② 200, r+2=0→ r=±17; → X(x) = Asin (1747) + Boos(1747) → Asin(2175) + Boos(2175) = -Asin(2175) + Boos(2175) + Boos(2175) = -Asin(2175) + Boos(2175) + Boos(2175)

A.TA.cos(aTh) - B.TA.sin(aTh) = A.TA.cos(aTh) + B.TA.sin(aTh), aB.sin(aTh) = 0

if A=0=B, trivial sol., else, $\Delta B=n\pi \longrightarrow A=(\Phi)^{A}$, n=1,2,3...

 \mathfrak{D} Inco, $h=-\mu^+ \longrightarrow \chi''-\mu^t \chi=0$, $\Gamma=\pm\mu \longrightarrow \chi_{(\chi)}=Ae^{\mu t}+Be^{\mu t}$, $\chi_{(-1)}=\chi_{(2)} \longrightarrow Ae^{\mu t}+Be^{\mu t}=Ae^{\mu t}+Be^{\mu t}$

 $\therefore \text{ uci,t}) = \frac{a_0}{2} + \sum_{n=1}^{\infty} \left[a_n \cos(\frac{n\pi}{2}) + b_n \sin(\frac{n\pi}{2}) \right] \cdot e^{-\frac{n\pi}{2}}$

 $\mathcal{H}(\mathcal{H},\sigma) = \cos(\underline{\mathcal{U}}) + \sin(\pi x) = \frac{\alpha_0}{2} + \sum_{n=1}^{\infty} \left[A_n \cdot \cos(\underline{\mathcal{U}}) + b_n \cdot \sin(\underline{\mathcal{U}}) \right]$

 $l_{\alpha} = \int_{-\infty}^{\infty} \cos(\frac{\pi t}{2}) dt = 0, \quad q_{\alpha} = 1, \quad p_{\alpha} = 1 \longrightarrow 10$

3. We=3Mac, +>0, 04x147, MOOE)=0=24x(17(e), MOAD)=56x1+58x(2)

Let u=kT. $KT'=3x^kT\longrightarrow \overline{x}^m=\overset{K}{X}^m=\lambda\longrightarrow 0$ $T'=-\overline{x}kT$, $Ten=e^{-\overline{x}kT}$, 2 $X^kNk=0$ (1) h=0, Xch=adth, $Xch=a+b=X^kn=a=0$ $\longrightarrow a=b=0$, third set.

 $\text{...} \text{ With:} = \sum_{n=1}^{\infty} \left(\mathbb{L}_n \cdot \sin(\frac{n\pi}{n}) \mathbf{A} \right) \cdot e^{-2\left(\frac{n\pi}{n}\right)^2} \\ \text{...} \text{ with:} = \sum_{n=1}^{\infty} \mathbb{L}_n \cdot \sin(\frac{n\pi}{n}) \mathbf{A} \cdot \sin(\frac{n\pi}{n}) \\ \text{...} \text{ with:} = \sum_{n=1}^{\infty} \left(\sin(\frac{n\pi}{n}) \mathbf{A} \cdot \sin(\frac{n\pi}{n}) \mathbf{A} \cdot \sin(\frac{n\pi}{n}) \mathbf{A} \cdot \sin(\frac{n\pi}{n}) \mathbf{A} \cdot \sin(\frac{n\pi}{n}) \mathbf{A} \right) \\ \text{...} \text{ with:} = \sum_{n=1}^{\infty} \left(\sin(\frac{n\pi}{n}) \mathbf{A} \cdot \sin(\frac{n\pi}{n}) \mathbf{A} \cdot \sin(\frac{n\pi}{n}) \mathbf{A} \cdot \sin(\frac{n\pi}{n}) \mathbf{A} \cdot \sin(\frac{n\pi}{n}) \mathbf{A} \right) \\ \text{...} \text{ with:} \text$

$$=\frac{1}{4}\left[\begin{array}{cc} \frac{1}{2}\left[\frac{1}{2}\left(\frac{1}{2}\right)_{1}+\frac{1}{2}\left(\frac{1}{2}\right)_{2}+\frac{1}{2}\left(\frac{1}{2}\right)_{3}+\frac{1}{2}\left(\frac{1}{2}\right)$$

$$=\frac{1}{4!}\cdot\left[\frac{1}{24!}\cdot\frac{1}{24!}\cdot\frac{1}{24!}\cdot\frac{1}{24!}+\frac{1}{4!}\cdot\frac{1}{24!}\cdot\frac{1}{24!}\cdot\frac{1}{24!}\right]=\frac{1}{4!}\cdot\frac{1}{24!}\cdot\frac{$$

$$\therefore M(H/C) = \sum_{n=1}^{N-1} \frac{1}{L} \cdot (-1)_n \cdot \frac{g}{g} \cdot \frac{1}{2} \cdot (-1)_n \cdot \frac{g}{g} \cdot \frac{1}{2} \cdot \frac$$