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$$\psi(x) - \lambda \int (2\pi t + 4\pi^2) \psi(t) dt = 0 - \text{ognorogue} \text{ up-e} \text{ apregnont na}$$

$$\psi(x) = \lambda \int (2\pi t + 4\pi^2) \psi(t) dt$$

$$\psi(x) = \lambda \lambda a \int t \psi(t) dt + 4 \lambda a^2 \int \psi(t) dt$$

$$\begin{aligned}
\Psi(\alpha) &= 2\lambda \alpha C_1 + 4\lambda \alpha^2 C_2 \\
C_1 &= \int_{-1}^{1} t \Psi(t) dt
\end{aligned}$$

$$C_2 &= \int_{-1}^{1} \Psi(t) dt$$

Nagorabheeue 4(2) 6 C, u Ca:

$$C_1 - \int_{-1}^{1} t(a\lambda t C_1 + 4\lambda t^2 C_2) dt = 0$$

$$C_1\left(\Delta - 2\lambda \int_{-1}^{1} t^2 dt\right) - C_2 4\lambda \int_{-1}^{1} t^3 dt = 0$$

$$C_1\left(\Delta - 2\lambda \frac{2}{3}\right) - C_2 4\lambda \cdot 0 = 0$$

$$C_{2} - \int_{-1}^{1} (2\lambda + C_{1} + 4\lambda + C_{2}) dt = 0$$

$$-2\lambda C_{1} \int_{-1}^{1} t dt + C_{2}(1-4\lambda) \int_{-1}^{1} t^{2} dt = 0$$

$$-2\lambda C_{i} \cdot 0 + C_{2}(\Delta - 4\lambda \frac{2}{3}) = 0$$

Unecu ouemeurs

$$\begin{cases} C_1 \left(1 - \frac{4}{3} \lambda \right) + C_2 \cdot 0 = 0 \\ C_1 \cdot 0 + C_2 \left(2 - \frac{8}{3} \lambda \right) = 0 \end{cases}$$

$$\begin{vmatrix} 1 - \frac{4}{3}\lambda & 0 \\ 0 & 1 - \frac{8}{3}\lambda \end{vmatrix} = 0 \qquad \lambda_1 = \frac{3}{4} \qquad \lambda_2 = \frac{3}{8}$$

$$\begin{cases} C_1(1-1) + C_2 \cdot 0 = 0 \\ C_1 \cdot 0 + C_3 \left(1 - \frac{8}{2}, \frac{3}{4}\right) = 0 \end{cases} = > C_2 = 0$$

=> Coscorb. as-a sugern $\ell_1(\alpha)=2\lambda$ $\ell_1\alpha$ will nowarous, uno $\ell_1\lambda=\Delta=>\ell_1(\alpha)=2\alpha$

Nosemabeur la 6 cuemeury:

$$\begin{cases} C_{1} \left(\frac{3}{8} \right) + C_{2} \cdot 0 = 0 \\ C_{1} \cdot 0 + C_{2} \left(\frac{3}{3} \cdot \frac{3}{8} \right) = 0 \end{cases} \Rightarrow C_{1} = 0$$

=> Cotemb. op-u typem $4(x) = 4\lambda x^2 C_2$ www, no rarad, uno $C_1 \lambda = 2 = 2$ $4(x) = 4x^2$

Ornbern:
$$\lambda_1 = \frac{3}{4}$$
 $V_1(\alpha) = 2\alpha$
 $\lambda_2 = \frac{3}{8}$ $V_2(\alpha) = 4\alpha^2$

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$$(\alpha) - \lambda \int_{0}^{2\pi} \sin \alpha \cos t \psi(t) dt = 0$$
 Ognorogue $\omega - e$ Oregronoma
$$(\alpha) = \lambda \sin(\alpha) \int_{0}^{2\pi} \cos(t) \psi(t) dt$$

$$C = \int_{0}^{2\pi} \cos(t) \psi(t) dt$$

$$(\alpha) = \lambda C \sin(\alpha)$$

$$(4)$$
Nogerabueu $(A) = b$ $(A + A) = 0$ $(A + A) = 0$

$$C \sin \alpha \int_{0}^{2\pi} \cos(t) dt = 0$$
 $(A + A) = 0$

Daturde ograpoghoe yp-e npu uto $\delta n = \lambda$ wheem montro ograp tyuebae peutiteue $\ell(\alpha) = 0 = \lambda$ on the wheem xarakmetrucmunicky a nucen u cobeto. $\alpha - \lambda$

Ombem: nem

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$$\int_0^2 3 (\alpha - t) \psi(t) dt = \sin \alpha - yp - e muna chèpmicu$$

$$K(\alpha, t) = \int_0^2 (\alpha - t) \psi(t) dt = \sin \alpha - yp - e muna chèpmicu$$

$$V(\alpha) : \overline{V}$$

$$V_0 : \overline{V}_0 = \frac{1}{\sqrt{\frac{1}{p^2 + 1}}} p$$

$$Sin(\alpha) : \frac{1}{p^2 + 4}$$

$$\overline{Y}_{0} \overline{Y}(x) = \frac{1}{p^{2} + \Delta}$$

$$\overline{Y}(x) = \frac{\sqrt{1-x+1}p}{p^{2} + \Delta}$$

$$\psi(\alpha) = \int_0^{\infty} (\alpha)$$
 Ombern: $\int_0^{\infty} (\alpha)$

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$$\forall (\alpha) = \alpha - \int_{0}^{\pi} \sinh(\alpha - t) \forall (t) dt$$
 $\forall (\alpha) = 4 - \sinh(\alpha - x) \forall (\alpha) - \int_{0}^{\pi} \cosh(\alpha - t) \forall (t) dt$
 $\forall (\alpha) = 4 - \int_{0}^{\pi} \cosh(\alpha - t) \forall (t) dt$
 $\forall (\alpha) = 4 - \int_{0}^{\pi} \cosh(\alpha - t) \forall (t) dt$
 $\forall (\alpha) = - \cosh(\alpha - x) \forall (\alpha) - \int_{0}^{\pi} \sinh(\alpha - t) \forall (t) dt$
 $\forall (\alpha) = - \gcd(\alpha) - \int_{0}^{\pi} \sinh(\alpha - t) \forall (t) dt$
 $\forall (\alpha) = - \alpha + \int_{0}^{\pi} \sinh(\alpha - t) \forall (t) dt$
 $\forall (\alpha) = - \alpha + \int_{0}^{\pi} \sinh(\alpha - t) \forall (t) dt$
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 $\forall (\alpha) = - \alpha + \int_{0}^{\pi} \sinh(\alpha - t) \forall (t) dt$
 $\forall (\alpha) = -\alpha + \int_{0}^{\pi} \sinh(\alpha - t) \forall (t) dt$
 $\forall (\alpha) = -\alpha + \int_{0}^{\pi} \sinh(\alpha - t) \forall (t) dt$
 $\forall (\alpha) = -\alpha + \int_{0}^{\pi} \sinh(\alpha - t) \forall (t) dt$

Ondern: $\forall (\alpha) = -\frac{\alpha^{2}}{6} + \alpha$
 $\forall (\alpha) = 0$
 $\forall (\alpha) = 0$

Permenue $\forall (\alpha) = -\frac{\alpha^{2}}{6} + \alpha$
 $\forall (\alpha) = 0$
 \forall

$$\frac{\sqrt{3}}{\sqrt{3}} \cdot \sqrt{\sqrt{3}} = \frac{1}{\sqrt{2} + \sqrt{3}}$$

$$\sqrt{3} \cdot \sqrt{\sqrt{3}} = \frac{1}{\sqrt{2} + \sqrt{3}}$$

$$\sqrt{3} \cdot \sqrt{3} \cdot \sqrt{3} = \frac{1}{\sqrt{2} + \sqrt{3}}$$

$$\sqrt{3} \cdot \sqrt{3} \cdot \sqrt{3} = \frac{1}{\sqrt{2} + \sqrt{3}}$$

$$\sqrt{3} \cdot \sqrt{3} \cdot \sqrt{3} = \frac{1}{\sqrt{2} + \sqrt{3}}$$

$$\sqrt{4} \cdot \sqrt{3} = \sqrt{3} \cdot \sqrt{3}$$

$$\sqrt{4} \cdot \sqrt{3} = \sqrt{3}$$

$$\sqrt{4} \cdot \sqrt{3} = \sqrt{3}$$

$$\sqrt{4} \cdot \sqrt{3}$$

$$\sqrt{4}$$

Sin (2) = 1