Pennerene augen 13 Bare

$$X''YZ + XY''Z + XYZ''=0 : XYZ$$

 $X''(x) = -Y''(y) = Z''(z) = -\lambda^2 = >$
 $X(x) = -X''(y) = Z(z)$

$$\begin{cases} X_{(\alpha) \le 0} \\ X_{(x) + y_5} \\ X_{(x) = 0} \end{cases}$$

$$\Rightarrow X(x) = C_3 \cos \lambda x + C_2 \sin \lambda x$$
$$X(0) = C_4 = 0$$

$$X'(\alpha) = \lambda C_{\alpha} \cos \lambda \alpha = 0 \Rightarrow$$

$$\rightarrow \lambda_n = \overline{t+2\pi n}$$
, $\chi_n(x) = \sin\left(\frac{\pi+2\pi n}{2\alpha}x\right)$, $h = 0.1...$

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$$\frac{y''(y)}{y(y)} = \lambda^2 - \frac{Z'(z)}{Z(z)} = -\mu^2 = \sum \frac{Z'(z)}{Z(z)} = \lambda^2 + \mu^2$$

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$$\mathcal{U}(x,y,z) = \sum_{h,m=0}^{\infty} Z_{hm}(z) \cdot Sin\left(\frac{v_{+ab}n}{2a}x\right) \cos\left(\frac{v_{m}y}{b}\right)$$

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$$U|_{Z=0} = \sum_{n_1m_2o} Z_{nm}(o) \cdot Sin(\lambda_n x) \cos(\mu_m y) = (x-a)^2 x \cdot \cos(\frac{3\pi}{8}y) = \sum_{n_1m_2o} \psi_{n_3} \cdot \cos(\frac{3\pi}{8}y) = \sum_{n_1m_2o} \psi_{n_2} \cdot \cos(\frac{3\pi}{8}y) =$$

$$\int_{0}^{0} x(x-\alpha)^{2} \sin(\frac{T+aTn}{2a}x) dx$$

$$\int_{0}^{0} \sin^{2}(\frac{T+aTn}{2a}x) dx$$

$$= -32a^{4}(6\cdot(-1)^{n}-2\pi(1+2n))$$

$$(T+2\pi n)^{4} \cdot \alpha$$

$$\mathbb{Z}_{hm}(c) = \begin{bmatrix} 1, (h,m) = (2,7) \\ 0, (h,m) \neq (2,7) \end{bmatrix}$$

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$$\left\{ \begin{array}{l} Z_{nm}(2) - V_{nm} Z_{nm}(2) = 0 \\ Z_{nm}(0) = \left[\begin{array}{l} (n_3, m = 3) \\ 0, m \neq 3 \end{array} \right], \text{ kow Dem ee pewerene} \\ Z_{nm}(c) = \left\{ \begin{array}{l} 3, (n,m) = (2,7) \\ 0, (n,m) \neq (2,7) \end{array} \right\} \end{aligned}$$



$$Z_{nm}(c) = C_3 ch(V_{nm}c) + C_3 sh(V_{nm}c) = \left[\frac{3}{5}, (h,m) = (2,7) \right]$$

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$$C_2 = \left[\frac{1}{sh(v_{27}c)}, (n,m) = (Z,7)\right]$$

 $-v_{ns} ch(v_{ns}c), m=3$
 $v_{ns} ch(v_{ns}c)$

B where pewerne nexormon sonoun uncer sup $V(x,y,Z) = \frac{Sh(V_{27}Z)}{Sh(V_{27}C)}$. $Sin(\frac{5\pi}{20}x) \cdot cos(\frac{7\pi}{8}y) +$

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$$Sin\left(\frac{T+2\pi h}{2\alpha}x\right).\cos\left(\frac{3\pi}{6}y\right)$$