علی تالی مراهای دوبرده می میاسی می ایسان اسی و ۱۰۰۰ و ۲۰-۷۰ و ۲۰-۷ و ۲

Q1 (V,-V+) + Q+ (Vy-V+)+ - + dnVn ==

d, VI+ (dy-d1) V++ ---+ (dn-dn-1) Vn =0

ی دایم در براودای Vi منطر خواند سی :

 $\alpha_{i=0}$ $\alpha_{i=0}$ $\alpha_{i=0}$ $\alpha_{i=0}$

-> Kn=0

هد نه ماصفراند على دا داى دان الله معنول على اندا

5.1.EVI8 0,16.0de

رولا) رد قصد ما سال نعف ،

V1 = (1,0) , VY = (0,1) W1 = (-1,0) , WY = (0,1)

New solve majed lie , Me IN Queider ?

Q(1,0)+B(0,1) = (0,0) -> d=B=0 Q(-1,0)+B(0,1) = (0,0) -> &=B=0

را ۷۱،۷۷ برابر (۱۰و۰) خوالد بول وسی ماغ اگر درعبویم بردارهای ما م ۵۱۰ سے عبویم برداردا متعلی توالعند بول

 $\mathcal{L}(0,0) + \mathcal{B}(0,1) = (0,10)$ -> $\mathcal{B}=0$ $\mathcal{L} = \text{anything}$ معالى، بلى انبار ابن مروار واستدعلى الند نياز داري د روسال مارس بروارها برابر هفر كرد ١

$$\begin{vmatrix} ab - 1 & -1b = 0 \\ b & b \end{vmatrix}$$

$$\Rightarrow b(a-1) = 1$$

$$\rightarrow b(a-1)=1$$
, $\rightarrow b=\frac{1}{4}-1$

617301.3

ر علی قبایل

ال ال الت) الدماج على إلى عنول فرك يد برام رفط بليري ، فواهم دا .

fir) = (a, , a, + - + a, 1) 1/2

طَنَ تَعَرِّ ، () قدر ملل دوليه الم بولورك.

مال ی فرام شکل دهم که نزری کت. اندهد بردارها ۱۵ اکند مقام مراها بار صوی کردند رسادات مورد نظر برقواری کود

A= (n for) = (1 (a1 + ar + an)

 $\frac{dA}{dr} = \frac{f'(r)}{f_{(r)}} = \frac{C_{(\alpha')} + \alpha''_{(\alpha')}}{r''} + \frac{\alpha''_{(\alpha')} + \alpha''_{(\alpha')}}{r''_{(\alpha')}} + \frac{\alpha''_{(\alpha')} + \alpha''_{(\alpha')}}{r''_{(\alpha')}}$

- f'(r) = f(r) B

مياع أعطره سيد أي بين الدي السيد الاست.

 $B = \left(\frac{n}{\epsilon} a_i^r \left(\frac{n}{\epsilon} a_i^r - \left(\frac{n}{\epsilon} a_i^r \right) \right) \right)$

 $C = \alpha_i^r \ln(\frac{a_i^r}{(\frac{\xi}{j^{-1}} a_j^r)}) + \cdots + \alpha_n^r \ln(\frac{a_n^r}{(\frac{\xi}{j^{-1}} a_j^r)})$

= E ai lne ari

(n(ai) 10 -) - Color Sy celes see I - int see color for C f(r) (0 \rightarrow : 1/p+1/9=1 P = 3/9-1 n [a;b;] ((E /b; | 2) (E /a; |) (E /a; |) (E /a; |) E |aibi| 1 (E |bi|) 1/2 (E |ai| 2/4-1) (I)(I) --> $= \left(\frac{\varepsilon}{\xi}, |n_i|^{\frac{\alpha}{2}} \right)^{\frac{\alpha}{2}} n^{\frac{1-\frac{\alpha}{2}}{2}}$ $\Rightarrow \left(\underbrace{\varepsilon}_{i=1}^{n} |x_{i}|^{\rho} \right)^{1/\rho} \wedge \left(\underbrace{\varepsilon}_{i=1}^{n} |x_{i}|^{2} \right)^{1/2} n^{1/\rho - 1/2}$ > 11n1/p Kn 11x119

200 1.1 MA

موال (١) خواص (ك :

$$\overrightarrow{C} = \overrightarrow{h'} + \overrightarrow{f} \overrightarrow{b}$$

$$\overrightarrow{C} = \overrightarrow{h'} + \overrightarrow{f} \overrightarrow{b}$$

$$\overrightarrow{h} = -\overrightarrow{h'}$$

سطوف سند رامان ی بری دیم د اعال ای برارهما روزدات می طوف دیم هم المات

1 a+b 1 = 11 b+C11 -> 11 (x+1) b+ h 11= 11 (B+1) b+h 11

$$|\alpha+1| = |\beta-1| \rightarrow (\alpha+1) = -(\beta+1) \rightarrow \alpha+\beta = 0$$

$$\frac{\partial^2 \omega}{\partial \omega} \frac{\partial \omega}{$$

$$||\vec{\alpha}||' = ||\vec{\beta}||' + ||\vec{\beta}||'$$

$$(3.1)' = ||\vec{\beta}||' + ||\vec{\beta}||'$$

$$(4.1)' = ||\vec{\beta}||' + ||\vec{\beta}||'$$

$$\left(\frac{1}{\sqrt{n}}, \frac{\cos x n}{\sqrt{n}}\right) = \int_{-\pi}^{\pi} \frac{\cos x x}{\pi \sqrt{r}} dx = \frac{1}{\pi \sqrt{r}} \sin x n \Big|_{-\pi}^{\pi}$$

$$= \frac{1}{\pi \sqrt{r}} \left(\sin \pi x - \sin (-\pi x) \right)$$

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(1/11)
$$\frac{\sin \beta \alpha}{\sqrt{5}} = \int \frac{\sin \beta \alpha}{\sqrt{5}\sqrt{5}} d\alpha = \frac{-1}{5\sqrt{5}\sqrt{5}} \left(\cos(5)/2\right) - 1$$

$$= \frac{-1}{\sqrt{5}\sqrt{5}} \left(\cos(5)/2\right) - \cos(5)/2 = 0$$

$$\left(\frac{\sin\beta x}{\sqrt{n}}, \frac{\cos n}{\sqrt{n}}\right) = \int_{-\pi}^{\pi} \frac{\cos \pi x \cdot \sin \pi n}{\sqrt{n}} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\cos(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\cos(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\cos(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\cos(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\cos(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\cos(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\cos(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\cos(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\cos(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\cos(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn = \frac{1}{\sqrt{n}} \int_{-\pi}^{\pi} \frac{\sin(\alpha - \beta)n}{\alpha \cdot \beta} dn$$

$$\frac{\left(\frac{\cos \alpha x}{\sqrt{\pi}}, \frac{\cos \sqrt{5}x}{\sqrt{\pi}}\right) = \frac{1}{\pi} \int_{\Omega}^{\Omega} \frac{\cos \alpha x}{\cos \sqrt{5}x} d\alpha = \frac{1}{\pi^{2}} \int_{\Omega}^{\Omega} \frac{\left(\cos (\alpha \cdot \beta \cdot x) + \cos (\alpha \cdot \beta \cdot x)\right)}{\sin \alpha \cdot \beta} d\alpha$$

$$= \frac{1}{12} \left(\frac{\sin (\alpha \cdot \beta \cdot x)}{\cos \beta} + \frac{\sin (\alpha \cdot \beta \cdot x)}{\cos \beta}\right) \Big|_{-\Omega}^{\Omega}$$

$$= \frac{1}{12} \left(\frac{\sin (\alpha \cdot \beta \cdot x)}{\cos \beta} + \frac{1}{2} + \frac{\sin (\alpha \cdot \beta \cdot x)}{\cos \beta}\right) \Big|_{-\Omega}^{\Omega}$$

$$= \frac{1}{12} \left(\frac{\sin (\alpha \cdot \beta \cdot x)}{\cos \beta} + \frac{1}{2} + \frac{\sin (\alpha \cdot \beta \cdot x)}{\cos \beta}\right) \Big|_{-\Omega}^{\Omega}$$

$$= \frac{1}{12} \left(\frac{\sin (\alpha \cdot \beta \cdot x)}{\cos \beta} + \frac{1}{2} + \frac{\sin (\alpha \cdot \beta \cdot x)}{\cos \beta}\right) \Big|_{-\Omega}^{\Omega}$$

$$= \frac{1}{12} \left(\frac{\sin (\alpha \cdot \beta \cdot x)}{\cos \beta} + \frac{1}{2} + \frac{\sin (\alpha \cdot \beta \cdot x)}{\cos \beta}\right) \Big|_{-\Omega}^{\Omega}$$

$$= \frac{1}{12} \left(\frac{\sin (\alpha \cdot \beta \cdot x)}{\cos \beta} + \frac{1}{2} + \frac{\sin (\alpha \cdot \beta \cdot x)}{\cos \beta}\right) \Big|_{-\Omega}^{\Omega}$$

$$= \frac{1}{12} \left(\frac{\sin (\alpha \cdot \beta \cdot x)}{\cos \beta} + \frac{1}{2} + \frac{1}{2}$$

حال به يون را مع نمايس ي هم.

$$\left(\frac{1}{\sqrt{\ln x}}, \frac{1}{\sqrt{\ln x}}\right) = \int_{-\pi}^{\pi} \frac{1}{\ln x} dx = \frac{\pi}{\ln x} \int_{-\pi}^{\pi} = 1$$

$$\left(\frac{GS \, dx}{\sqrt{\pi}}, \frac{GS \, dx}{\sqrt{\pi}}\right) = \int_{-\pi}^{\pi} \frac{GS' \, dx}{\pi} dx = \frac{1}{\ln x} \int_{-\pi}^{\pi} (1. \, GS \, dx) dx$$

$$= \frac{1}{\ln x} \left(\frac{\pi}{\pi} + \frac{Sin \log \pi}{\pi}, \frac{Sin \pi}{\pi}, \frac{Sin \pi}{\pi}\right) = \frac{\log \pi}{2\pi}$$

$$\left(\frac{Sin \int_{-\pi}^{\pi} S\pi}{\pi} + \frac{Sin \int_{-\pi}^{\pi} S\pi}{\pi}\right) = \int_{-\pi}^{\pi} \frac{Sin \int_{-\pi}^{\pi} S\pi}{\pi} dx = \frac{1}{\ln x} \left(\frac{\pi}{\pi} - \frac{Sin \log \pi}{\pi}\right) = \frac{\log \pi}{2\pi}$$

$$= \frac{1}{\ln x} \left(\frac{\pi}{\pi} - \frac{Sin \log \pi}{\pi}\right) = \frac{\log \pi}{2\pi}$$

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uce, sinut / conut / pilinio . it well by an an a. ul 11111 = Side = T Il cas nw.t Il' = from costnvot dt = if (1+ costnw.t)dt = 1/r + 1/2 (Sin Privat - Th The PSHATING = T/r 11 sin nw.t 11 = 5 1/4 sin nw.t dt = 1/4 5 T/4 (1- cos rhv.t) dt = 1/rT - 1/r (Sinkhwet) -th = T/r = Ysinky = T/r $\Rightarrow \alpha_0 = \frac{(f(t), 1)}{\|1\|'} = \frac{1}{T} \int_{-T_N}^{T_N} f_{(t)} dt = \frac{1}{T} \int_{-T_N}^{T} f_{(t)} dt$ an = (fit), cosnwit) = The fittes note dt = T Sanword = The Sinhword - Toll $= \frac{\mathcal{E}A}{T_{nn}} \sin \frac{n w_n T_p}{r} = \left(\frac{\gamma A}{n \pi} \sin \left(\frac{n \pi T_p}{T} \right) \right)$

> bn = (fa), sinnwit)

| Sinnwit| = T Statishnwitdt = M Sin nwet de = -KA cag most -To = -th (Cos(nwTp) cos (nwTp)) = 0 $= \int_{(t)}^{\infty} a_{s,t} \sum_{n=1}^{\infty} (a_{n} a_{s,n} w_{n} t_{+} b_{n} sh n w_{n} t_{+})$ = (f(t) = TPA + 5 YA sin (nTTp) (as nwoT) a. = (fa), 1) = 1/T \ fadt = 0 = an = (fa), (a) nwell = 1/4) fin (as nwit dt = M/ () (1+ Et) COSHWH + (1- 14/) COSHWH dt)

$$X = \frac{\mathcal{E}}{T} \left(\frac{t \sin n\omega t}{\eta \omega} - \int_{-T_{f}}^{\infty} \frac{\sin n\omega t}{\eta \omega} \right) = \frac{\mathcal{E}}{n^{r}\omega^{r}} \left(\cos n\omega t \right) - \int_{-T_{f}}^{\infty} \frac{1}{\eta \omega} \left(1 - \cos (n\omega t) \right)$$

$$Y = \frac{\mathcal{E}}{n\omega^{r}} \cos n\omega t \int_{0}^{T_{f}} \frac{1}{\eta \omega} \left(1 - \cos (n\omega t) \right)$$

$$= \frac{\mathcal{E}}{n\omega^{r}} \cos n\omega t \int_{0}^{T_{f}} \frac{1}{\eta \omega} \left(1 - \cos (n\omega t) \right)$$

$$= \frac{\mathcal{E}}{n\omega^{r}} \cos n\omega t \int_{0}^{T_{f}} \frac{1}{\eta \omega} \left(1 - \cos (n\omega t) \right)$$

$$= \frac{\mathcal{E}}{n\omega^{r}} \cos n\omega t \int_{0}^{T_{f}} \frac{1}{\eta \omega} \sin n\omega t dt + \int_{0}^{T_{f}} \frac{1}{\eta \omega} \sin n\omega t d\omega t + \int_{0}^{T_{f}} \frac{1}{\eta \omega} \sin n\omega t d\omega t + \int_{0}^{T_{f}} \frac{1}{\eta \omega} \sin n\omega t d\omega t + \int_{0}^{T_{f}} \frac{1}{\eta \omega} \sin n\omega t d\omega t + \int_{0}^{T_{f}} \frac{1}{\eta \omega} \sin n\omega t d\omega t + \int_{0}^{T_{f}} \frac{1}{\eta \omega} \sin n\omega t d\omega t + \int_{0}^{T_{f}} \frac{1}{\eta \omega} \sin n\omega t d\omega t + \int_{0}^{T_{f}} \frac{1}{\eta \omega} \sin n\omega t d\omega t + \int_{0}^{T_{f}} \frac{1}{\eta \omega} \sin n\omega t d\omega t + \int_{0}^{T_{f}} \frac{$$

$$X = \frac{Cos(n\pi)}{n^{N}} - 1 + \sqrt[N]{1 - TCos(n\pi)} + (\frac{sin m^{N}}{n^{N}}) |_{T_{1}}^{\infty}$$

$$= \frac{1 - \frac{Cos(n\pi)}{n^{N}}}{n^{N}}$$

$$= \frac{1 - \frac{Cos(n\pi)}{n^{N}}}{n^{N}} |_{T_{1}}^{\infty}$$

$$= \frac{-Gs(n^{N})}{n^{N}} |_{T_{1}}^{\infty} - R$$

$$B = +\sqrt[N]{1 - \frac{Cos(n\pi)}{n^{N}}} + \sqrt{\frac{Cos(n\pi)}{n^{N}}} + \sqrt{\frac{Cos(n\pi)}{n^{N}}}$$

$$= \frac{1 - \frac{Cos(n\pi)}{n^{N}}}{n^{N}} + \sqrt{\frac{Cos(n\pi)}{n^{N}}} + \sqrt{\frac{Cos(n\pi)}{n^{N}}}$$

$$= \frac{1 + \frac{Cos(n\pi)}{n^{N}}}{n^{N}} + \sqrt{\frac{Cos(n\pi)}{n^{N}}} + \sqrt{\frac{Cos(n\pi)}{n^{N}}} + \sqrt{\frac{Cos(n\pi)}{n^{N}}}$$

$$= \frac{M}{n^{N}} + \frac{M}{n^{N}} + \sqrt{\frac{Cos(n\pi)}{n^{N}}} + \sqrt{\frac{Cos(n\pi)}{n^{N}}} + \sqrt{\frac{Cos(n\pi)}{n^{N}}} + \sqrt{\frac{Cos(n\pi)}{n^{N}}} + \sqrt{\frac{Cos(n\pi)}{n^{N}}} + \sqrt{\frac{M}{n^{N}}} + \sqrt{\frac{Cos(n\pi)}{n^{N}}} + \sqrt{\frac{M}{n^{N}}} + \sqrt{\frac{Cos(n\pi)}{n^{N}}} + \sqrt{\frac{M}{n^{N}}} + \sqrt{\frac{M}{n^$$