Nrr = 400520 + 6 r cos 36

NOO = 95050 - 8520520 - 95300530

KOKUYO

```
1 Vr + Vrr + V66 - 4055 + 40526 + 300536 + 400526 + 600536
                        + 4 cost _ freszt - 91 cos36 = 0 c7/m)
 N(2,6) - - 5 - 8 rcs 6 + 8 rcs 20 + 8 rcs 36
         = -3 -16 sm2+ - 32 cos & sm26 (T/m)
 Bai 31
 \int \Delta u = 2x \qquad x^2 + y^2 < 1
   y = x - x3 - 2xy2
 To rai dish hour V TIM N" (x) = Zx
                 -2 \mathcal{N}(x) = \frac{x^3}{2} + (4x + C_2)
    Chan C_1 = \underbrace{\chi}_1 C_2 = 0 - \mathcal{V}(\chi) = \underbrace{\chi^3}_3 + \chi
Khi đơ đơu w = u - v Thị w T/m bou tocin
 w_{xx} + w_{yy} = u_{xx} - v'' + u_{yy} = 2x - 2x = 0
w|_{p} = x - x^{3} - 2xy^{2} - x^{3} - x = -\frac{4}{3}x^{3} - 2xy^{2}
  o N(r,t)= w (r cost, rsmt) T/m bou tocin
  Nr + Vrr + Voo - 0 0 ercl, 0 cr czn
v(1)\theta = -\frac{4}{2}(\cos^3\theta - 2\cos\theta \sin^2\theta)
  Chuối nghiên của NCT, t) cơ dang
 N(r, \theta) = a_0 + \sum_{n=1}^{\infty} \left[ a_n \cos(n\theta) + b_n \sin(n\theta) \right] r^n
 N(156) = 9c + 5 [ an (05 (n6) + bn sin (n6)]
                                                               KOKUY
```

$$= -\frac{1}{3} (\cos^{3}\theta - 2\cos\theta) \sin^{3}\theta$$

$$= -\frac{1}{3} (\cos^{3}\theta + 3\cos\theta) - (\cos\theta + 4\cos\theta)$$

$$= -\frac{1}{3} (\cos^{3}\theta + 3\cos\theta) - \cos\theta + \frac{1}{3} (\cos^{3}\theta + \cos\theta)$$

$$= -\frac{3}{3} (\cos\theta + \frac{1}{6}\cos\theta)$$

$$= \cos\theta + \frac{1}{3}\cos\theta$$

$$= -\frac{3}{3} (\cos\theta + \frac{1}{3}\cos\theta)$$

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$$= -\frac{1}{3} (\cos\theta + \frac{1}{3}\cos\theta + \frac{$$

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Sach Puncheva - Rubinstein, Teory 205, 207
    7.7
     a) DU = UTI + Uyy = 0
      Trong he' tog do cuic
      Đối biến SI = roost
     Khy đơ
          NCrot) - M(10050, 18mb) Thed main
              Nr + Nrr + V66 = 0
     Da' bien SI = VCOSt
       2 N(r,6) = U(rcest, rsmb) Tim bou toon.
      Nr + vrr + V60 - 0
      N(56,6) = 168m+ 68m20.
Church Nghien NCV, 6) (c' doing
   v(r, \theta) = q_0 + \sum_{n=1}^{\infty} \left[ q_n \left( os(n\theta) + bn \, sm \, (n\theta) \right) \right] r^n
   ν(16,6) = ac + Σ[an cos(no) + bn sm(no)](√6)"= √6 smo + 6 sm²0
         = V6 smt + 3(1 - (0526) = 3 + V6 sm & - 3 (0520
    Dany nhai he so' Ta duir 40=3, 9=-1, b=1
                                an=0 + n + 10,23, bn = 0 + n + 1
   -> N(r, 6) = 3 - 12 cos26 + rsm 6.
                                                           KOKUYO
```

Thứ Ngày No.

2 -	r2cos26	+ Y2	vamb
= 0=		2	

$$=3-\chi^{2}+\chi^{2}+y^{2}+y$$

The lai

$$Uxx = 0 -1 \quad f \rightarrow uxx + uyy = 0 \quad C7/m$$

$$uyy = 1$$

7.19

7.22 do

$$\int \Delta \pi = 0 \qquad \chi^2 + y^2 < 36$$

$$|U(X)y| = \alpha \qquad |X| \qquad x < 0$$

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Dôi bien fr = rase

$$N(6, \theta) = \int 8005\theta \, dhi + \frac{17}{2} \leq \theta \leq \frac{317}{2}$$

$$0 \, dhi - \frac{17}{2} \leq 0 \leq \frac{7}{2}$$

Chuẩn nghiên $V(r, t) = a_{t} + \sum_{n=1}^{\infty} [a_{n} (o_{s}(nt) + b_{n}s_{m}(nt))]r^{n}$ $V(6, t) = a_{t} + \sum_{n=1}^{\infty} [a_{n} (o_{s}(nt) + b_{n}s_{m}(nt))]t^{n}$ $V(6, t) = a_{t} + \sum_{n=1}^{\infty} [a_{n} (o_{s}(nt) + b_{n}s_{m}(nt))]t^{n}$ $V(6, t) = a_{t} + \sum_{n=1}^{\infty} [a_{n} (o_{s}(nt))]t^{n}$ $V(6, t) = a_{t} + \sum_{n=1}^{\infty} [a_{n} (o_{s}(nt))]t^{n}$ V(6, t) $\frac{1}{\pi 6^n}$ 12 $\int \cos \theta \cos(n\theta) d\theta$ $\frac{6}{17.6^{n}} \int_{\frac{\pi}{1}}^{\pi} \left((\cos(n+1)t + \cos(n-1)t) \right) dt = \frac{6}{17.6^{n}} \left(\frac{8m(n+1)t}{n+1} + \frac{8m(n-1)t}{n-1} \right) \Big) \frac{\pi}{17}$ $\frac{1}{16^{n-1}} \left(\frac{3m(n+1)\frac{\pi}{2}}{n+1} + \frac{8m(n-1)\frac{\pi}{2}}{n-1} \right) \qquad (n \neq 1)$ $\frac{1}{16^{n-1}} \left(\frac{n+1}{n+1} + \frac{n-1}{n-1} \right)$ $Q_{1} = \frac{1}{6\pi} \left(\int_{-\pi}^{\pi} \frac{6 \cos^{2}\theta d\theta + \int_{\pi}^{\pi} 6 \cos^{2}\theta d\theta - \int_{\pi}^{\pi} \frac{3\pi}{6\pi} \int_{-\pi}^{3\pi} \frac{3\pi}{6\pi} d\theta \right)$

Thứ

	Thứ Ngày · No.
1 1 5 18 66	6) sm(n6) dt
$h_n = \frac{\pi}{\sqrt{\pi}} \int \mathcal{N}(b)$	
1	
= 1 (6 2056	sm (n6) d6 + 56(05t sm(n6) dt)
$=\frac{1}{6^n\pi}\left(\int_{-\pi}^{\pi} 6x\cos\theta\right)$	7
3 [(C) & (n) (1) A+	sm(n-1)t]dt + S[(8m(n+1)t+ sm(n-1)t)]dt
677 - T	The second of th
	2 ((3) 27 ((3) 1) ((3) 1)
$= \frac{3}{(-\cos((n + 1)6))}$	$\frac{(cs(n-1)\theta)}{n-1} = \frac{1}{7} \left(\frac{-(cs(n+1)\theta)}{n+1} \frac{(cs(n-1)\theta)}{n-1} \right) = \frac{1}{11}$
G 11 (' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	2
	$\frac{\partial S(n-1)\pi}{\partial S(n-1)\pi} = 0$
GN76 N+L	n-1, $n+1$, $n-1$.
- 2	76
$\frac{1}{6\pi} = \frac{7}{6\pi}$	$26 d6 + \int 3 \sin 26 d6 = \frac{1}{611} \left(3 - 3 \right) = 0$
Star we were a read in the last	1 32 manten december 1 = 1 3 .
	0
) the v(r,t) = -6 +	$\frac{1}{2} \frac{3 \cos \theta_{+}}{1} \sum_{n=2}^{\infty} \frac{1}{16^{n-1}} \left(\frac{8m(n+1)^{\frac{n}{2}}}{n+1}, \frac{3m(n-1)^{\frac{n}{2}}}{n-1} \right) r^{n}$
- the same of	
W. Carlotte and Ca	10.6