$$| \cdot \cdot \cdot | = \int_{\mathbb{R}} \int_{\mathbb{R}$$

P.

$$2g(2) = \frac{e^{ix^2}}{a^2 + 2^2}$$
. e^{-xa}
 e^{-xa}
 e^{-xa}
 e^{-xa}
 e^{-xa}
 e^{-xa}
 e^{-xa}

$$\int_{R} \frac{e^{i\lambda x}}{a^{2}+x^{2}} dx + \int_{0}^{\pi} \frac{i R e^{i0} e^{i i x} R e^{i0}}{a^{2}+p^{2} e^{i i0}} d0 = \pi i \underset{ia}{\text{Pes } g(3)}$$

$$LHI = \int_{R} \frac{\cos x}{a^{2}+x^{2}} dx + \int_{0}^{\pi} \frac{iRe^{ix}R\cos\theta - xR\sin\theta + i\theta}{a^{2}+R^{2}e^{2i\theta}} d\theta.$$

$$\frac{1}{\sqrt{2}} \int_{0}^{\sqrt{2}} \frac{i R e^{i x R \cos - x R \sin \phi + i \phi}}{a^{2} + R^{2} e^{2i \phi}} d\phi = 0. \quad R \to \infty.$$

$$RHS = \frac{1}{\alpha} e^{-x \alpha}$$

(2):
$$2 \frac{U + 3 U \times 0}{U + 3 U \times 0}$$

$$\frac{d \mathcal{Z}(t)}{d + 2} = 3 \qquad 2 \frac{U(t) = U(t, \mathcal{Z}(t))}{\mathcal{Z}(t) = 3t + \mathcal{Z}(t) = 3t + \mathcal{Z}(t)}$$

$$(3). \ \mathcal{U}(2) = -\iint \left(\frac{1}{2} \frac{\partial n}{\partial x} \right) ddp$$

$$\mathcal{U}(x_0, y_1, z_0) = \frac{2}{2\pi} \int_{\mathcal{P}} \int_{\mathcal{P}} \frac{1}{\sqrt{(x_0 - x_0)^2 + (y_0 - y_0)^2 + y_0^2 +$$

11/2 11-11/2 11 -0 47.7

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/2 U(+\cdot x)=\mathbb{Z}(x)(+). \Rightarrow \frac{\mathbb{Z}''(x)}{\mathbb{Z}(x)}=\frac{\mathcal{T}'(x)}{\mathcal{T}''(x)}=-\lambda.
   Q到台对·只有D解。
   ②到入20时, X(x)= (16)nkx+ (2005tx. 由以(0,+)=0=> (2=0.
         成UK,t)=0 => SON 友ス=ロ => なス= な = 入= た 1-2---
  TOBE ZR(X)= Sinkx. Tol Tr(t)= Arsinkt + Braskt.
  UCON=(K) シ P(X)= 門 By SinkX 故 By= 美 の P(S) Sinks ds
   U+(oix): 4(x)=) 4(x)= 農 Akksinkx 故 Ap= 広かならinps ds
  to Uct. X)= El (25) het /2 4(5) sinks ds + 2 cospe /2 4(5) sinks ds) sinkx.
D). UC+.x)= = (Apsinpt + Bp Caspt) Sinpx.
     U_t^2 + U_x^2 = k^2 \left( \frac{3}{k^2} \left( A_K \alpha \xi \beta t - B_R \xi_i n \beta t \right) \xi_i n \beta x \right)^2 + k^2 \left( \frac{3}{k^2} \left( A_K \xi_i n \beta t + B_R \alpha \xi \beta t \right) \cos \beta x \right)^2
 Jo(U2+U2) dx = p2/ = [(A Kaspt-Breinha) 6 in2 xx + (AK6 in kt+Brespe) as2 kx ] dx.
      Bin Sinkx Sin/xck=0. Axl. Sin2kx dx = 5. 65 kx dx = 2
 => 50 (vet 1/2) ob= 32 = (A12 + BK)
母が(y2+y2)dx= がにはAppsinex)2+(これPROGNX)2) dx = うなこれにはBil)
 35/ /5 (|UE)2+ |UX12) 0/X = /5 (Px2+42) dx
4. 7 - bu= 1 x652 u(80) = 47 1 uds
BR(20)
ulan = 0.
  动: 司节 3 3 = 2 = 2 3 + 1 3 - 2 4 = 3 + 1 3 - 2 3 = 3 + 1 3 - 2 3 = 3 + 1 3 - 2 3 = 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3 + 1 3
 i.e. Urr+ = Ur+1=0
4d \min |x-x_0|^2 \stackrel{?}{=} 2(\iota(x_0) \stackrel{!}{=} \max |x-x_0|^2 \qquad \qquad \mathcal{U} = \frac{|R|^2}{2n} - \frac{1}{2n} r^2
Qn3201. Ur=- nr = U= - inr+ 6.
風Ubn=0=)Co= sin. のの動材.粉. で)如の中min |x-x)2 ≤ 2nu(xs) ≤ max x-xo)2
5. ? X
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