Taken Note 1 (2)

$$\frac{du}{dx} = a\frac{du}{dx^2}$$
; $\frac{8u(x, 0)}{8u(x, 0)} = \frac{8in(\frac{nx}{e})}{8u(x, 0)}$
 $u(0, t) = u(t, t) = 0$

METOG POSGENEAUS representation.

 $u(x, t) = X(x) T(t)$; $\frac{4u(x, t) - 1}{8u(x, t)} = \frac{x''(x)}{8u(x, t)} = 0$
 $X(x) = C_1 \cos \lambda x + C_2 \sin \lambda x$;

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 $X(x) = C_2 \sin \lambda x + C_3 \sin \lambda x$;

 $X(x) = C_3 \sin \lambda x + C_3 \sin \lambda x$;

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Kangen T: T(4) = a 1 T(4) ; T(4) = Cexp an2 n2+ 4/x+/= Cexp(an2n2+); Un(x,+/= Csin(e) exp(an2+) U(X,t/= E Cosin/Anx) explant) Koronomoe yendue: u(x,0) = E Ch Sin = sin/ax Chegologe ABAD BCE Con Knowe C, poline MYND, G=1 Ux, +/ = sin(nx/ explant/ Probepka: Ux(X,+) = h cos/nx/exp(an+); $u_{xx}(x,t) = \frac{an^2}{e^2} sin(\frac{nx}{e})exp(\frac{an^2t}{e^2})$ U+(x,+)+ a coxx(x,+)= an2 sin(e) exp(an2)-- a m2 sin/ex/exp/an2/=0