من من را من المراس ما تعور کار برای عومی را الواس معرف ما ری دود . بی میداد می میداد می میداد می میداد می میداد می میداد می می میداد میداد می میداد میداد می میداد م $\begin{cases} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \end{cases} = \frac{1}{2} \begin{cases} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{cases} = \frac{1}{2} \end{cases}$ Les $u(x,t) = U(5,t) = \int_{-\infty}^{\infty} e^{-5x} u(x,t) dx$ { 2 { 3 - u(vit)} = & 2 { | u(vit) } - u(vio) = & U(vio $|\{\{\frac{\partial^2 u(x_1 t)}{\partial t^2}\}| = SU(x_1 S) - SU(x_1 S) - U(x_1)$

$$\omega(0,t)=t, \quad ,\omega(2,0)=1 \qquad \text{bit} \frac{\partial w}{\partial x}+x\frac{\partial w}{\partial t}=0 \quad -10^{ii}$$

$$t > 0 \qquad \omega(2,t)=? \qquad ; \text{for dimagnity} = 0 \qquad \text{for dimagnity} = 0$$

$$\frac{\partial w(2,s)}{\partial x}+x\left[x\frac{\partial w}{\partial t}\right]=0 \Rightarrow \frac{1}{2}\left[\frac{\partial w}{\partial x}\right]+x\left[x\frac{\partial w}{\partial t}\right]=0$$

$$\frac{\partial w(2,s)}{\partial x}+x\left[x\frac{\partial w}{\partial x}\right]=0 \Rightarrow \frac{1}{2}\left[\frac{\partial w}{\partial x}\right]+x\left[x\frac{\partial w}{\partial t}\right]=0$$

$$\frac{\partial w(2,s)}{\partial x}+xx\frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]=0 \Rightarrow \frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]+x\frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]=0$$

$$\frac{\partial w(2,s)}{\partial x}+xx\frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]=0 \Rightarrow \frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]=0$$

$$\frac{\partial w(2,s)}{\partial x}+xx\frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]=0 \Rightarrow \frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]=0$$

$$\frac{\partial w(2,s)}{\partial x}+xx\frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]=0 \Rightarrow \frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]=0$$

$$\frac{\partial w(2,s)}{\partial x}+xx\frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]=0 \Rightarrow \frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]=0$$

$$\frac{\partial w(2,s)}{\partial x}+xx\frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]=0 \Rightarrow \frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]=0$$

$$\frac{\partial w(2,s)}{\partial x}+xx\frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]=0 \Rightarrow \frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]=0$$

$$\frac{\partial w(2,s)}{\partial x}+xx\frac{1}{2}\left[x\frac{\partial w}{\partial x}\right]=0$$

 $W(2,5)=Ce^{-\frac{2}{2}}$ $\omega(0,t)=t$ $\omega(x,0)=0$ $\omega(x,0)=0$ $\omega(x,0)=0$ $\begin{cases} n=0 & \longrightarrow & W(0, \xi)=C \\ W(0, t)=t & \longrightarrow & 2\{W(0, t)\}=2\{t\}=\frac{1}{\xi^2}=W(0, \xi)=C \end{cases}$ $\longrightarrow W(\chi, S) = \frac{1}{S^2} = \frac{-\chi^2}{S} = \frac{1}{S} = \frac{1}{S}$. Les Simoning

$$\begin{cases} f(t) = tu(t) \stackrel{?}{\rightleftharpoons} F(s) = \frac{1}{8^2} \\ f(t-d) = (t-d)u(t-d) \stackrel{?}{\rightleftharpoons} \frac{1}{8^2} e \end{cases} \stackrel{?}{\rightleftharpoons} W(x_1t) = (t-x_2^2)u(t-x_2^2)$$

$$= W(x_1t) = \begin{cases} t - x_2^2 & t > x_2^2 \\ t - x_2^2 & t > x_2^2 \end{cases}$$

$$= W(x_1t) = \begin{cases} t - x_2^2 & t > x_2^2 \\ t - x_2^2 & t > x_2^2 \end{cases}$$

$$u(\cdot,t)=1, u(1,t)=1$$

$$v(x)=\frac{\partial u}{\partial t}$$

$$v($$

 $|z| = c \Rightarrow 0 - 3c = -1 \Rightarrow c = \frac{1}{5}$: Edla - 1 51: 25.11 : Béer 26 $\implies D(\Pi^{2}+\xi)=1 \implies D=\frac{1}{\Pi^{2}+\xi}$ Sm Train pirk w je-120

$$W(x_{1}) = 1, \frac{\partial W(x_{1})}{\partial t} = 0$$

$$V(x_{1}) = 1, \frac{\partial W(x_{1})}{\partial t} = 0$$

$$V(x_{1}) = 0$$

$$V(x_$$

الزمي بالرف فيرس الد: and B=0 wister by it. i how (21t)=0 $2\rightarrow0$ $W/\chi, 51 = Ae$ · Opeling blipsica $= \mathcal{L}\left\{Simt\left(u_{1t}\right) - u_{1}(t-2\pi)\right\} = F(S) \Longrightarrow F(S) = A$ $W(x_15) = F(s)e \qquad \qquad w(x_1t) = f(t-x)u(t-x)$

$$w(x,t) = f(t-x)u(t-x)$$

$$\omega(x_1t) = \begin{cases} \circ, t < x \\ \sin(t-x), t > x \end{cases}$$

$$u(3_{t}t) = \circ, u(0_{t}t) = \circ div, \frac{\partial u}{\partial t} = 4 \frac{\partial u}{\partial x^2}$$

$$u(3et)=0$$
, $u(0et)=0$ divide $\frac{\partial u}{\partial t}=4\frac{\partial u}{\partial x}$

2,w -06

who has win.

: नुष्टारायाम खरीतः July of the little of the state · De sie ele este pour de l'an let , Utt The stime of the $Du = 0 \Rightarrow Du = 0 \Rightarrow u(x) = Ax + B$