\* = hat + & dx => no jungs or discontinuities (x) of reR i.e constant Friction(es) morkets: No limits to trading-No transction costs No taxes

$$Q = \begin{cases} \frac{97}{9} - \nabla & Q = 0 \\ \frac{97}{9} - \nabla & Q = 0 \end{cases} = \begin{cases} \frac{97}{97} - \nabla & Q = 0 \\ \frac{97}{97} - \nabla & Q = 0 \end{cases} = \begin{cases} \frac{97}{97} + \frac{97$$

$$\int_{0}^{\infty} \int_{0}^{\infty} \int_{0$$

Call

Pat

D Friel (Pryoff) Condition

C(S,T)=max(S-E,0)

2) B-Cs

9 5-0  $C \rightarrow 0$ 

 $C \sim S$ by 5-> 00

O Fiel (Psyxf4) Condition

P(J, T) = max (E-J\_T,0)

(2) IJ-CS

dy S-> 0 P-> 0

By S=0 (Put-Call party / 8-8-66 (T-6) 8-66 (T-6) P=66 (T-6)

D. S.M Male!

Deriver the PDE done is 1 D'Esmoss Nodel Prize winning For Dire volving the PDE

1) Use transfors & substs to reduce

the G-J. E to a 17 heat eggi

2) Jolve using similarity reduction

$$\frac{25}{35} = \frac{35}{35} \left( \frac{35}{35} - \frac{35}{35} \right)$$

$$\frac{35}{35} = \frac{35}{35} \left( \frac{35}{35} - \frac{35}{35} \right)$$

$$\frac{35}{35} = \frac{35}{35} \left( \frac{35}{35} - \frac{35}{35} \right)$$

$$\frac{35}{35} = \frac{35}{35} - \frac{35}{35} = \frac{35}{35} - \frac{35}{35} = \frac{35}{35}$$

new 
$$\left(\frac{3}{3}\right)^{2} = \frac{5}{5} + \left(\frac{1}{3}\right)^{2} = 0.0$$

Use chair Pole II

 $\frac{3}{3}$ 
 $\frac{3}{3}$ 

C= 
$$Je^{OT}N(J_1) - Ee^{-T}N(J_2)$$

ATMF:  $E = \{e^{r-D}T^T\}$ 

C=  $Je^{DT}N(J_1) - Je^{r-D}T^T - T^T}N(J_2)$ 

C=  $Je^{DT}N(J_1) - Je^{r-D}T^T - T^T}N(J_2)$ 

where

 $J_{12} = los(E) + (r-D + Je^{r}) = + Je^{T}$ 

Close to exercise

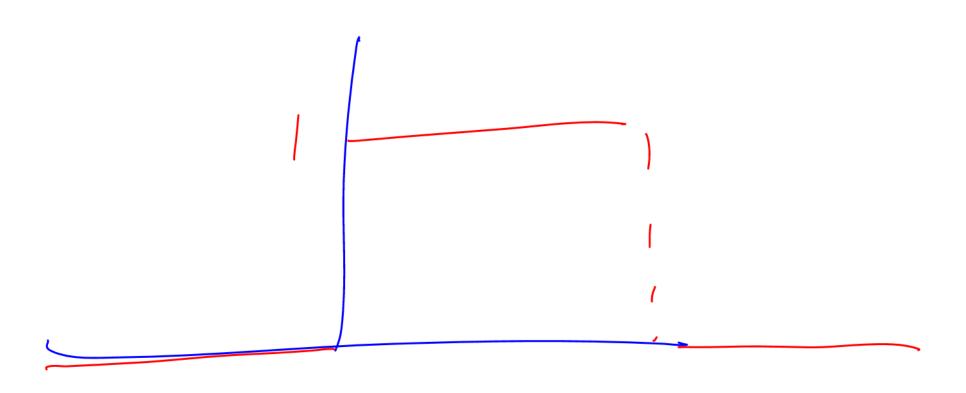
C =  $Je^{DT}N(J_1) - N(Je^{r})$ 

$$\mathcal{H}(x) = \begin{cases} 1 & x > 0 \\ 0 & x < 0 \end{cases}$$

$$\mathcal{H}(x) = \begin{cases} 1 & x > 0 \\ 0 & x < 0 \end{cases}$$

$$\mathcal{H}(x) = \begin{cases} 1 & x > 0 \\ 0 & x < 0 \end{cases}$$

$$\mathcal{H}(x) = \begin{cases} 1 & x > 0 \\ 0 & x < 0 \end{cases}$$



$$V(S+4S,t) = V(S,t) + \frac{3V}{3V} SS + \frac{1}{2} \frac{3}{2} \frac{3}{2}$$

$$\frac{37}{991} = \frac{37}{900} = \frac{21-f}{900} = \frac{21-f}{$$

ر ا الع ل 25 25 T price = R.V  $\mathbb{F}\left(\left(\mathcal{V}(X)\right)^{-1}\right)=$  $\widetilde{p}(x)$ h(r) dr