```
Bou tap lân 2,
 DE 1 - K64TT
(cân 1 = xux + (1+y2) uy + xu = x2 (x>0,y>0)
           €) XUX+(1+y²)Uy = x²-X4
    \Rightarrow Q(\chi_1 y) = \chi_1 b(\chi_1 y) = 1 + y^2, ((\chi_1 y) u) = \chi^2 - \chi u.
     Phuong trush đặc trưng
        \frac{dx}{x} = \frac{dy}{1+y^2} = \frac{du}{x^2 - xu}
 \Rightarrow enx = arctany + C
 = lnx - arctany = C
  Voit S = lnx - arctany = u(x,y) = v(s,t)
 = \int U_{\chi} = V_{8} S_{\chi} + V_{t} X_{z} = \frac{V_{3}}{\lambda} + V_{t}
U_{y} = V_{8} S_{y} + V_{t} t_{y} = \frac{-V_{8}}{\lambda + y^{2}}
            XUx + (1+42)Uy = Vs+XVt-V3= XVt = x2-X4
                Vt = x - u
            (x) Vt = t - V
            (=) V+V= t
          ( et V+ etv = tet
         e^{t}v = te^{t} - \ell^{t} + f(s)
        (-) V = t-1+e-t f(3)
        > No The M(X14)= X-1+e-xf (lnx - arctany)
                  \frac{(u(x_1y) = x_1 + e^{-x_f'})}{(x_1x_2 + e^{-x_f'})} = \frac{e^{-x_f'}}{(x_1x_2 + e^{-x_f})} = \frac{e^{-x_f'}}{(x_1x_2 + e^{-x_f})}
 This lai
                                                  =\chi(\chi-u)=\chi^2-\chi u \ (774)
                 Uy = \frac{-\ell^{-\chi} f'}{1+ 4^2}
```

```
h) Tace u(x,y) = x-1+e-1f(lnx-cactany)
  He' u(x)y) = ax+b+2e-x like lnx-circ tany=0
 \rightarrow \int \alpha = 1
 D Chow f(t) = t+2 -> f(lnx-carctany)= lnx-carctany+2
 \mathcal{L}(\chi_1 y) = \chi - 1 + e^{-\chi} \left( \frac{\ln \chi - \alpha r c + \alpha n y + \lambda}{\ln \chi - \alpha r c + \alpha y + \lambda} \right)
Kucin TIA la la Ux = 1 - e^{-\chi} (\ln \chi - \alpha r c + \alpha y + \lambda) + \frac{e^{-\chi}}{r}
            Uy=-l-x
1+42.
         -> XUX + (1t 42) Uy= X-Xe-x (Pnx - arctgy + 2)
                       =\chi^2-u\chi.
  +) Chan f(t) = (05(t) +1
          > f(lnx- cactqy) = . (05 (lnx-cac+cany)+1
  14(x)4) = x-1+ e-x [(05(lnx-circ+ciny) + L]
   Keen Ma
   Ur = 1 - e - x [ (cs(lnx - arctany)+1]+- e-x sin(lnx - arctay)
   Uy = e^{-\frac{1}{2}sun(\ln x - cos(tgy))}
    7 xUx + (1+42) Uy = X - xe -x [(05(lnx - arctqy) +1]
                      =\chi^2-\chi\chi
```