HIH I Carrela 400 (K)qv him direct integral 234 Condition. U(17,5) = (asy 2224 ((x,0) = e Siln Integrate, W.N 2. 24 = 2 e 22-35 f(v) Integraty with y 20 U(2,y)=-6e + Fy)+9/2

(Ag) him, dired integral 400 234 = e 22-34 Constan $C(x,0) = e^{2x} \qquad C(T,y) = cony$ Sila Integraly w. A 2. 24 = 2 e 22-34 + f(4) Integrate with y 20 U(x,y)=-6e + Fy + 4ks 1st Instral Condition U(x,0)= == -6 e + Fo + Ga =) Ge = e21 + 6 e27 - Fo - (2) =) 9(x) = 7e²¹ - Fro

Sila Integraly w. 1 2. 24 = 2 e 22 - 35 + f(4) Integrates with y 2 ((x,y) = - 6 e + F(y) + 4/2 1st Instral Condition U(x,0)=e22 = -6 e + Fo + Ga $= \frac{1}{2} = \frac{$ (3) 2nd Interest could -U(17/9)= cosy = - 6e + F(4) + G(17) =) F(y) = cosy + 6 e 2H-3y - GHD

Integrany was y 2 ((x,y) = - 6 e + Fy) + 4 (x) (1) Infrat Condition $U(x,0) = e^{2x} = -6e^{2x} + Fee + Grave$ $= \frac{1}{2} \frac{$ u(179)= cosy = - 6e + F(y) + G(n) =) F(y) = cosy + 6 e 3+-34 _ GHD (et do it at Fo we have F(0) = Cos(0) + 6 e 2T - 3(0) - G(TP) Fo = 1 + 6 e 2 T - G(T)



