Coconol N10.3 y" + y' = 1+ex K2 = -1 y = C, + C, ex, yo, = y + y y = e = + } nesoroucouror pemenos U = C,(x) + C,(x) e-x (C'(x) + C'(x) e = 0 (C'(x).0 - C'(x)ex = 1 Ди данный системы. W[1, e-x] = 1 e-x

 $C'_{+}(x) = \frac{\Delta_{1}}{W} = -\frac{e^{-x}}{1+e^{x}} \cdot \frac{1}{-e^{-x}} = \frac{1}{1+e^{x}}$ C,(x) = S 1 + ex dx = In 11+ex1 $C_2'(x) = \frac{\Delta_2}{W} = \frac{1}{9+e^x} = \frac{e^x}{-e^x} = \frac{e^x}{1+e^x}$ $G(x) = -S \frac{e^x}{1+e^x} dx = \begin{cases} u = e^x \\ du = e^x dx \end{cases} dx = \frac{du}{e^x}$ = 43444 - 5 1 du = - In 11+41 = - in u= 1111+ex1-ex111+ex1 Queen: y = C1 + C2 ex + In/1+ex/- in/1+ex/- ex

 $C'_{+}(x) = \frac{\Delta t}{W} = -\frac{e^{x}}{1+e^{x}} \cdot \frac{1}{e^{-x}} = \frac{1}{1+e^{x}}$ C1(x) = Stex dx = In 11+ex1 $C_2'(x) = \frac{A_2}{W} = \frac{1}{9+e^x} = \frac{e^x}{1+e^x}$ G(x) = 5 ex dx = { u = ex dx = dy } = { x = = exulu - 5 1 du = - in 1+ + u) = - in 1+ ex) U= 11/1+ex/ -ex/1/1+ex/ Quigen; y = C, + C, ex + in/++ex/- in/++ex/-