y12. lny' = y F(y, y', y")=0 y'zu y"zuu' umu z j Juhu 2 Juy ln(lnu) = lny + lnC, lnu=yC, Jdy = Cidx lny = C, X + Cz,

$$V^{N} - B y^{1} + 17y = (5x + 8) \cdot e^{x} \cos 3x$$

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$$V^{N} - C^{N} (\cos x^$$

 $y^{x}-y = th x$ 1) $k^{2}-1=0$ 2) $y^{4}+2 = e^{-x} tg^{-1}(e^{x}) + e^{x} tg^{-1}(e^{x})$ (k-i)(k+1)=0 $k_{1}z=t_{1}$ $y_{0} = C_{1}e^{x} + C_{2}e^{-x}$ $1y^{2} = C_{1}e^{x} + C_{2}e^{x} + e^{-x} tg^{-1}(e^{x}) + e^{x} tg^{-1}(e^{x})$

?
$$2yy^{n} + y^{12} + y^{14} = 0$$
 $y(0) = 0; y(0) = 2$