(421) x2y" = y'2 Mexam y' = z(x) x²z' = z² Nº 4 $\int \frac{dz}{z^2} = \int \frac{dx}{x^2} + C_1, \quad z = \frac{x}{1 - C_1 x} = y'$ y= \int \frac{x}{1-C_1x} + C_2 = \int - \frac{1}{c_1}x - \frac{1}{c_1} \ln |C_1x - 1| + C_2 \frac{1}{c_1}x - \frac{1}{c_1} \ln |C_1x - 1| + C_2 \frac{1}{c_1}x - \frac{1}{c_1} \ln |C_1x - 1| + C_2 \frac{1}{c_1}x - \frac{1}{c_1} \ln |C_1x - 1| + C_2 \frac{1}{c_1}x - \frac{1}{c_1} \ln |C_1x - 1| + C_2 \frac{1}{c_1}x - \frac{1}{c_1} \ln |C_1x - 1| + C_2 \frac{1}{c_1}x - \frac{1}{c_1} \ln |C_1x - 1| + C_2 \frac{1}{c_1}x - \frac{1}{c_1} \ln |C_1x - 1| + C_2 \frac{1}{c_1}x - \frac{1}{c_1} \ln |C_1x - 1| + C_2 \frac{1}{c_1}x - \frac{1}{c_1} \ln |C_1x - 1| + C_2 \frac{1}{c_1}x - \frac{1}{c_1} \ln |C_1x - 1| + C_2 \frac{1}{c_1}x - \frac{1}{c_1} \ln |C_1x - 1| + C_2 \frac{1}{c_1}x - C_1 \frac{1}{c_1}x - $\begin{bmatrix} x^2 + C_2, & \text{liciyo} & C_1 = 0 \\ C_2, & \text{liciyo} & C_2 = 0 \end{bmatrix}$ C2, except C1 = 00 (423) yy" = 1 y = p.p, To y $p \cdot p' = 1$ $p \cdot dp = \frac{dy}{y^3}$ $\frac{p^2}{2} = -\frac{1}{2y^2} + C$ p2 = - 1 + C $P = \pm \left(C - \frac{1}{y^2}\right)^{1/2}$ $y' = \pm \left(C - \frac{1}{y^2}\right)^{1/2}$ $\frac{dy}{t(c-\frac{1}{y^2})^{1/2}} = dx$

$$\frac{y}{\pm} \frac{dy}{(cy^{2}-1)^{1/2}} = dx$$

$$\frac{1}{2c} \frac{d(y^{2}-c)}{(cy^{2}-1)^{3/2}} = dx$$

$$\frac{1}{2c} \frac{(cy^{2}-1)^{3/2}}{(1/2)} = x + c$$

$$\frac{1}{2c} \frac{1}{2c} \frac{(cy^{2}-1)^{3/2}}{(cy^{2}-1)^{3/2}} = x + c$$

$$\frac{1}{2c} \frac{1}{2c} \frac{(cy^{2}-1)^{3/2}}{(cy^{2}-1)^{3/2}} = x + c$$

$$\frac{1}{2c} \frac{1}{2c} \frac$$

$$\frac{1}{\sqrt{cy^{2}+1}} = dx$$

$$\frac{1}{\sqrt{cy^{2}+1}} = dx$$

$$\frac{1}{\sqrt{cy^{2}+1}} = \frac{1}{\sqrt{c}} \arcsin Cy$$

$$\frac{1}{\sqrt{c}} \frac{1}{\sqrt{c^{2}y^{2}+1}} = \frac{1}{\sqrt{c}} \arcsin Cy$$

$$\frac{1}{\sqrt{c}} \frac{1}{\sqrt{c^{2}y^{2}+1}} = \frac{1}{\sqrt{c}} \frac{1}{\sqrt{c^{2}y^{2}+1}} = \frac{1}{\sqrt{c}} \frac{1}{\sqrt{c^{2}y^{2}+1}} = \frac{1}{\sqrt{c}} \frac{1}{\sqrt{c}} \arcsin \frac{1}{\sqrt{c}}$$

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$$\frac{dz}{z} = -\frac{dx}{e^{x}+1}$$

$$-\int \frac{dx}{e^{x}+1} = -\int \frac{de^{x}}{e^{x}(e^{x}+1)} = \int \frac{de^{x}}{e^{x}+1}$$

$$= -\int \frac{de^{x}}{e^{x}} = \ln (e^{x}+1) - x$$

$$\ln (e^{x}+1) - x = \ln Cz$$

$$= -C \frac{e^{x}+1}{e^{x}}$$

$$y' = C \frac{e^{x}+1}{e^{x}}$$

$$y' = C \frac{e^{x}+1}{e^{x}}$$

$$y' = C \frac{e^{x}+1}{e^{x}}$$

$$y'' = (y')^{2} + 15y^{2}\sqrt{x}$$

$$y'' = yz$$

2)
$$z' = 15 t \times$$
 $z = \int 15 t \times dx = 10 \times ^{15} + C$
 $y' = y (10 \times ^{15} + C)$
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