$$(y^{2} + 1) \frac{dy}{dx} = 4 \times y^{2}$$

$$(y^{2} + 1) \frac{dy}{y^{2}} = 4 \times dx$$

$$(1 - y^{2}) \frac{dy}{dy} = 4 \times dx$$

$$(1 - y^{2}) \frac{dy}{dy} = 1 \times dx$$

$$(1 - y^{2}) \frac{dy}{dy} = 2x^{2} + C_{1}$$

$$(1 - y^{2}) \frac{dy}{dy} = 2x^{2} + C_{1}$$

$$(2x^{2} + C_{1}) \frac{dy}{dx} = (2x^{2} + C_{1}) \frac{dy}{dx}$$

$$(2x^{2} + C_{1}) \frac{dy}{dx} = 4 \times y^{2}$$

$$(3x^{2} + 1) \frac{dy}{dx} = 4 \times y^{2}$$

$$(4x^{2} + 1) \frac{dy}{dx} = 4 \times y^{2}$$

$$(5x^{2} + 1) \frac{dy}{dx} = 4 \times y^{2}$$

$$(7x^{2} + 1) \frac{dy}{dx}$$

$$\frac{4.72}{\sqrt{3}} \quad \frac{dy}{\sqrt{3}} = \frac{2+\sqrt{x}}{2+\sqrt{y}}$$

$$\int_{y} \frac{y}{y^{2-1}} dy = \int_{x}^{1} dx$$

$$\Rightarrow \frac{1}{2} \ln |3| = 0 + c,$$

$$\supset C_1 = \frac{\ln |3|}{2}$$

of line It order ODE

(3)

So
$$d(x^2 x) = x^2 \left(\frac{1}{x^2} \sin(x)\right) = \sin(x)$$

$$x^2y = -\cos(x) + c_1$$

$$\Rightarrow y = \frac{1}{x} \cdot \cos(x) + c_1 + c_2$$

my to costa (x+1) + x costa 1 + 2; costa

pixiels as us eller electrica

x 2-9 = x 2 p x 4 1/37=8

12 da - 1 d = xex.

person & so he x

-1 d/x11=0"

$$= \int_{3}^{x} \frac{d}{ds} \left[s^{-1} y(s) \right] = \int_{3}^{x} e^{-s^{2}} ds$$

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