

$$3) \quad x^{2}y' = x^{4}y^{2} - 2x^{2}y - 1$$

Forma general de la ecuación de Riccati:

= -2x-3

$$u = -\int_X dx$$

$$u = -\frac{x^2}{2} + C$$

$$31 = K^{-2}$$
 $31 = -2 \times 2^{-2-7}$

$$y = x^{-2} + \left(-\frac{x^2}{2} + c\right)^{-1}$$

$$x^{3}(-2x^{-3}) = x^{4}(x^{-2})^{2} - 2x^{2}(x^{-2}) - 7$$

$$-2x^{-3+3} = x^{4}x^{-4} - 2x^{2-2} - 7$$

$$-2 = x - 2 - 1$$

$$-2 = -2 \quad (Ver: figures la ignal dud)$$

$$0 = \frac{1}{(\sqrt{2})^{1}} + \frac{1}{(-(\sqrt{12})^{1})^{2}}$$

$$0 = \frac{1}{2} + \frac{1}{c-1}$$

 $0 = \frac{1}{\lambda} + \frac{1}{c - \frac{3}{2}}$

$$-\frac{1}{2} = \frac{1}{C-1}$$

$$y^{2}(-2x^{3}-u^{2}u') = y^{4}(x^{-2}+u')^{2}-2x^{3}(x^{2}+u^{2})-1$$

$$-2x^{2+3}-u^{2}u'x^{3} = x^{4}(x^{-1}+2x^{2}u^{-1}+u^{2})-2x^{3-2}-2x^{2}u^{-1}-1$$

$$-2x^{2}u'x^{2}=x^{4-4}+2x^{2}u^{2}+x^{4}u^{2}-2x^{2}u^{2}-1$$

$$-2x^{2}u'x^{3}=x^{4}+2x^{2}u^{2}+x^{4}u^{2}-2x^{2}u^{2}-1$$

$$-2x^{2}u'x^{3}=x^{4}u^{2}$$

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$$-2x^{2}u^{2}x^{3}=x^{4}u^{2}$$

$$-2x^{2}u^{2}x^{3}=x^{4}u^{2}$$

$$-2x^{2}u^{2}x^{3}=x^{4}u^{2}$$

$$-2x^{2}u^{2}+x^{2}u^{2}-2x^{2}-2x^{2}u^{2}-2x^{2}u^{2}-2x^{2}-2x^{2}u^{2}-2x^{2}-2x^{2}u^{2}-2x^{2}-2x^{2}u^{2}-2x^{2}-2x^{2}u^{2}-2x^{2}-2x^{2}u^{2}-2x^{2}-2x^{2}-2x^{$$

$$(C-1) = -2$$

 $C = -2+1$

$$y = x^{-2} + \left(\frac{-x^2}{2} - 1\right)^{-1}$$

