

$$\int \frac{dx}{x^2} dx = \frac{2u - ux}{x^2} dx = \frac{1}{x^2}$$

$$\int \frac{dx}{x^2} dx = \frac{1}{x^2} dx = \frac{1}{x^2}$$

$$\int \frac{dx}{x^2} dx = \frac{1}{x^2} dx = \frac{1}{x^2}$$

$$\frac{dx}{dt} + t = tx - xe^{t}$$

$$\frac{dx}{dt} + t = tx - xe^{t}$$

$$\frac{dx}{dt} = -e^{t}x$$

$$e^{-t} = -e^{t}x$$

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