

COS

hsjoihs

1.

$$\frac{dy}{dx} = x + y$$

$$e^{-x} \left(\frac{dy}{dx} - y \right) = xe^{-x}$$

$$\frac{d}{dx}(ye^{-x}) = xe^{-x}$$

$$ye^{-x} = \int xe^{-x} dx = -e^{-x}(x+1) + C$$

$$y = -(x+1) + Ce^x$$