

15.33

onsdag 4 januari 2023

23:00

$$y(0) = 1$$

$$\int_a^b f(x) = 0$$

$$y(x) = 1 + \int_0^x y(t) dt$$

$$y'(x) = 0 + y(x)$$

$$y'(x) - y(x) = 0$$

$$y(x) = -1 \quad \Gamma(x) = -x \quad \text{IF} = e^{-x}$$

$$y(x) \cdot e^{-x} = \int 0 dx = C$$

$$y(x) = C e^x$$

$$y(0) = C e^0 = 1 \quad C = 1$$

$$\text{Sv: } y(x) = e^x$$