$$\frac{\partial x}{\partial t} = -\alpha x$$

$$\int \frac{\partial x}{x} = \int -a \partial t$$

$$\left[\ln x\right]_{x0}^{x0/2} = \left[-\alpha t\right]_{0}^{T}$$

$$\ln \frac{x0/2}{x0} = -aT$$

$$T = \frac{\ln 2}{\alpha}$$

$$\frac{9\times}{9t} = -\frac{1}{8000} \times$$

$$x(t) = 0.0650 \times 0$$
 } \$100 to

$$\sqrt{\frac{x}{9x}} = \sqrt{-\frac{8000}{y}} \approx 34$$

$$\int_{x_0}^{x_0/2} \frac{\partial x}{\partial x} = \int_{x_0}^{x_0/2} - \frac{1}{8000} dx$$

$$e^{\frac{1}{2}} = -\frac{1}{8000} = -\frac{1}{8000} = -\frac{1}{2}$$

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

$$S(t=0) = 13.6 \text{ Mg}$$

 $S(t=40) = 4.5 \text{ Kg}$

$$en \frac{us}{13.6} = a e(u-0) = 0 = \frac{1}{4} en \frac{us}{13.6} = -0.18765$$

$$\int \frac{ds}{s} = \int e_{s} (-0.12765) \cdot dt$$

$$ln = \frac{0.05 \cdot 19.6}{13.6} = -0.2765 \cdot (£1-0)$$

\$ (t=0) = Sna

$$V = Sool$$

$$\frac{dS}{dt} = \left(4 - \frac{8}{50}\right)$$

$$\frac{-so}{-so} = \frac{ds}{so} = dt$$

$$\int_{SMS}^{\frac{1}{2}} \frac{-50 \, d^{\frac{1}{2}}}{5 - 200} = \int_{0}^{\frac{1}{2}} dt$$

$$-so en \left(\frac{15-200}{s-200}\right) = t$$

$$en \frac{\dot{s}-200}{-19s} = -\frac{t}{s0}$$

ALLES LACTORS

$$\frac{dT}{dt} = \kappa (T - Tamb)$$

$$\int_{2}^{10} \frac{dT}{t-22} = \int_{9}^{10} \kappa dt$$

$$\left[\ln \frac{t-22}{2}\right]_2^{10} = \kappa + \int_a^{10}$$

$$\ln \frac{10-22}{2-22} = \kappa (10-9)$$

$$R = \frac{\ln \frac{10^{-22}}{2^{-22}}}{\ln \frac{10^{-9}}{2^{-9}}} = -0.510825$$

$$\int_{2}^{15} \frac{dT}{T-22} = \int_{q}^{\epsilon} -D_{1}S10823 dt$$

$$S - 55 = -0.810857.(t-a) -$$

$$\frac{dT}{dt} = \kappa (T - TA)$$

$$T(t=0) = 4^{\circ}C$$
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$$T(t=0) = 4^{\circ}C$$

 $T(t=0) = 37^{\circ}C$
 $T_{A} = 60^{\circ}C$

Birst un extract n as plasma in greet oven

$$\int_{4}^{37} \frac{dT}{T-50} = \int_{6}^{45} R dt$$

$$\left[\ln\left(\tau-so\right)\right]_{q}^{3t}=\left[\kappa\tau\right]_{0}^{qs}$$

NO PAR K= -0,05808 in the second aren

$$\int_{\zeta}^{27} \frac{d\tau}{\tau - 60} = \int_{0}^{4} -0.0281 dt$$

$$\ln \frac{37-60}{4-60} = -0.02808 +$$