$$\frac{dT}{dt} = -K(T-Ts)$$

$$\frac{dT}{T-Ts} = \int_{-K}^{K} (T-Ts) dt$$

$$\int_{-T-Ts}^{K} (T-Ts) dt$$

TANY DET DESCRIPTION STANDANTES ALIMENT ALIMENT I de dt T-To de de Tata dT TTo RelT-Tal = -Ut+C IT-Tak = e-Kt+C

TTA $T = e^{-kt}$. C

$$T(t) = T_{a} + C e^{Kt}$$

$$T(t) = T_{a} + C \cdot e^{Kt}$$

$$T_{o} = T_{a} + C \cdot e^{Kt}$$

$$C = T_{o} - T_{a} \rightarrow e$$

$$T(t) = T_{a} + (T_{o} - T_{a}) e$$