$$\frac{y}{y} = \frac{1}{\frac{1-i(\frac{1}{K})}{1+(\frac{1}{K})^2}} = \frac{i\omega t}{(\cos \omega t + i \cdot \sin \omega t)}$$

Proof of formal. acros + bsid = (cos (a- 1) solb

Settle

②王维:

送法!

Basiz

Mixing oxample.

trell 化铅的整容量"

X(t) = amt salt in tank at time t

るない NH)

$$\frac{dx^{(H)}}{dt}$$
 \rightarrow $total like.$

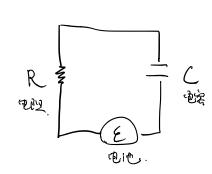
$$\frac{d \times ct}{dt} = \frac{\text{rate solt}}{\text{inflow}} - \frac{\text{rate solt}}{\text{outflow}}$$

$$= \gamma \cdot \text{le} - \gamma \cdot \frac{\chi}{\chi}$$

$$\frac{dx}{dt} + \frac{rx}{\sqrt{}} = r \cdot 6e$$

$$\int C(t) = \frac{x}{\sqrt{2}} \Rightarrow \frac{dx}{dt} = v \cdot \frac{dC}{dt}$$

"How closely does C(4) follow be" > 103)浓度系数程度上路 6 意化" of k big smal. A=1.



Observed

$$\frac{\partial R}{\partial t} = k_1 A + k_2 B$$

$$= k_1 A_1 e^{-k_1 t} - k_2 B \implies k_1 A_2 e^{-k_2 t}$$

$$= k_1 A_2 e^{-k_1 t} - k_2 B \implies k_2 B = k_1 A_2 e^{-k_2 t}$$

It kes , 以下就接到不透明, steady-state 能能 input 确如 response ont OR2 applies 证例, life which the input 确如 response ont OR2 applies 证例, life which the input 确如 response ont OR2 applies 证例, life which the input 确如 response ont OR2 applies 证例, life which the input applies input applies