Informal explosion by petting clunicals in a box Let To be the initial temps is a Indian of time, so T(t) = T ⇒ [= [(to) Note that Tie in Kelvin. 'Keadion Kinetics: K≈ Be-ElRT and $\frac{dA_F}{dt} = - + Ae^{-E/RT}$ and $\frac{dE}{dt} = \frac{d\Theta}{dt} - S$ Pate of change (in Box): CNdt = - 4 dt - H(T-T.) Where de = - 4 PERT

.

and
$$r = \frac{t}{t_c}$$
 where $t_c = t_{varive}$

Which makes our inital condition

$$\hat{T}(0)=1$$
 \hat{F}
 $\hat{T}=1+\epsilon\Theta$ and $\epsilon=\frac{1}{\epsilon}R$

$$\frac{\partial \Phi}{\partial x} = e^{2} - \frac{\Phi}{S}$$

$$\Rightarrow \frac{d\theta}{d\sigma} = de^{-\theta} \qquad \qquad (1)$$
for $\theta(0) = 0$

Three cases

Where all three happen over time.

So we are solving for Se[®] and
$$\Theta$$
 (2)

AND

The oscillation point; which hoppens when

So we choose of such that $g > \frac{1}{2}$ (3)

Which cases unbounded growth in to and governess on explosion.

- · We want to show ...
 - 1) Solve for (1) using RM.
 - 2) show cases 1 and 2 in (2)
 - 3) Show case 3 in (2) by using (3)
 - 4) Write about the physics in (4)
 - 5) Write about the numerics between (1) and (3).