Revision 2

$$

\begin{equation}

\label{ODE:fc}

f\_c(c) =

\begin{cases}

k\_{fc} \cdot c^2 & c \le L\\

p\_{d} \cdot \exp((p\_e \cdot c + p\_f)) + p\_g & c > L

\end{cases}

\end{equation}

$$

Since the $\exp$ function 加apparently grows much faster that than the quadratic function, the formula above characterizes how humans' 去掉activities 加are affected by CO$\_2$ emission with reletively relatively high accuracy.解释不到位，为什么这个迹象这么表明？需要加中间环节解释展开

\subsubsection{Stage 3. Solve the Differential Equation}

Clearly established way of computing Feedback Functions, With the method to compute Feedback Functions clearly established, we are now fully enabled to solve the differential equation. Substituting \ref{ODE:ft2}, \ref{ODE:fc} into \ref{ODE:big}, we have

$$

\begin{equation}

\label{ODE:ODE}

\frac{\mathrm{d}c}{\mathrm{d}t} \approx

\begin{cases}

p\_a t^2 + p\_b t + p\_c \ + \ k\_{fc} \cdot c^2 & c \le L\\

p\_a t^2 + p\_b t + p\_c \ + \ p\_{d} \cdot \exp((p\_e \cdot c + p\_f)) + p\_g & c > L \end{cases}\end{equation}$$Solving this equation, 是To solve this equation 还是Upon solving this equation we can derive the relationship between $c$ and $t$. The result is showed shown in the fugure figure below.

However, only for when $t \in \mathbb{Z}$ is this formula correct, for that $x\_1$, $x\_2$ and $x\_6$ are discrete sequences. In order to derive a continuous function (for the propose of in the effort to solve differential equation), 括号去掉we fit the sequences of $f\_t(t), t \in \mathbb{Z}, t \in [1960, 2021]$ with a cubic polynomial. The function holds for 什么意思捏$t \in \mathbb{R}, t \in [1960, 2021]$. Thus,