人 fins = an2+bn+C , 其中a、b、c为常量且 a>0 120F; fin) = 0 (n2) 温: 富要比明存在包含大的n,便得Gn≤an2+6n+C≤C2n $^{\circ}$ $G = ? ; G = ? ; N_0 = ?$ ① $an^2 + bn + c = \frac{1}{4}an^2 + \frac{3}{4}an^2 + bn + C$ $> \frac{1}{4}an^2 + \frac{3}{4}an^2 - |b|n - |c|$ $= \frac{1}{4}an^2 + \left(\frac{1}{2}an^2 - |b|n\right) + \left(\frac{1}{4}an^2 - |c|\right)$ $\frac{1}{2} \frac{1}{4} \frac{1}{4} \frac{1}{2} \frac{1$ @ $an^2 + bn + c \le an^2 + |b|n + |c| \le (2h^2)$: $|b|n \le \frac{1}{2}an^2$ $|c| \le \frac{1}{4}an^2$ $(an^{2}+\frac{1}{2}an^{2}+\frac{1}{4}an^{2} \leq an^{2}+|b|n+|c| \leq c_{2}h^{2}$ $(a+\frac{1}{2}a+\frac{1}{4}a) \leq c_{2}$ $(2 \geq \frac{7}{4}a$ $\sqrt[3]{3}$ $\sqrt[3]{3}$ $\sqrt[3]{4}$ $(2 = \frac{1}{4}a, c_{2} = \frac{1}{4}a, h_{0} = 2max(\frac{|b|}{a}, \sqrt[6]{a})$

注: an3+bn2+cn+d= 5ch), a>0 客管信用Cin3 = an3+bn2+ cn+d Proof: an3+bn2+ cn+d > cins $=7 \pm an^{3} + (5 + an^{3} + bn^{2} + cn + d)$ $\geq \frac{1}{2}an^3 + (\frac{1}{5}an^3 - |b|n^2 - |c|n - |d|)$ $\frac{h = 1}{2}$ $\frac{1}{2} a n^3 + (\frac{1}{2} a n^3 - |b| n^2 - |c| n^2 - |d| n^2)$ $\geq \frac{1}{5}an^{3} + (\frac{1}{5}an - |b| - |c| - |d|)n^{2}$ $\geq \frac{1}{5} \alpha n^3$ = an -161-1c1-[d] =0 $h = \frac{2(|b| + |c| + (d|))}{a} + |c| = \frac{1}{5}a.$

$$an+b = O(n^2)$$
, $a>0$
 $a=0$
 $a=0$

$$C = C + 16$$
,
$$N_0 = \max(1, -\frac{a}{b}),$$
可从证明地结论