$$\rho(t) = \frac{\rho_0}{1 + \frac{t}{t_0}} \qquad \rho'(t) = -\frac{\rho_0}{(1 + \frac{t}{t_0})^2} \cdot \frac{1}{t_0} = -\frac{\rho_0}{t_0} (1 + \frac{t}{t_0})^{-2}$$

$$P_{c}(t) = \frac{P_{2} + N - P_{2} - N}{2N^{2}} \qquad \Delta_{anp} = \frac{M_{3}(N^{2})^{2}}{6} \qquad \Delta_{bur} = \frac{\Delta P}{N^{2}}$$

$$\Delta = \Delta_{anp} + \Delta_{box} = \frac{M_3(N_7)^2}{6} + \frac{\Delta_P}{N_7}$$

$$\frac{\partial \Delta}{\partial N} = \frac{M_3 \Upsilon^2 N}{3} - \frac{\Delta P}{N^2 \Upsilon}$$

$$\frac{\partial \Delta}{\partial N}(N_0) = \frac{M_3 \chi^2 N_0}{3} - \frac{\Delta P}{N_0^2 \chi} = 0 \Rightarrow N_0 = \frac{3\Delta P}{\chi^3 M_1}$$

$$\mathcal{N}_{0} = \frac{1^{3}}{7} \frac{3\Delta P}{M_{3}}$$

$$Y = 1 \Delta P = 0.3$$
 $M_{K} = \frac{P_{0} K!}{t_{0}^{K}}$ $M_{3} = \frac{6P_{0}}{t_{0}^{3}}$ $t_{0} = 1000$ $P_{0} = 200$

$$N_0 = \frac{1000}{1} \cdot \frac{3\sqrt{0.3}}{2.200} = \frac{1000}{1000} = \frac{50.3}{100} \approx 90$$

$$\frac{N_0 = 90}{}$$