Tipuluep:  $\chi_{n+1} = \frac{1}{2} \left( \chi_n + \frac{\alpha}{\chi_n} \right) + \chi_n \in \mathbb{N}$ ,  $\alpha > 0$ ,  $\chi_1 - \frac{\alpha}{2}$ ,  $\gamma_1 = \frac{1}{2} \left( \chi_n + \frac{\alpha}{\chi_n} \right) + \chi_n \in \mathbb{N}$ ,  $\alpha > 0$ ,  $\chi_1 - \frac{\alpha}{2} = \frac{1}{2} \left( \chi_n + \frac{\alpha}{\chi_n} \right) + \chi_n \in \mathbb{N}$ ,  $\alpha > 0$ ,  $\chi_1 - \frac{\alpha}{2} = \frac{1}{2} \left( \chi_n + \frac{\alpha}{\chi_n} \right) + \chi_n \in \mathbb{N}$ ,  $\alpha > 0$ ,  $\chi_1 - \frac{\alpha}{2} = \frac{1}{2} \left( \chi_n + \frac{\alpha}{\chi_n} \right) + \chi_n \in \mathbb{N}$ ,  $\alpha > 0$ ,  $\chi_1 - \frac{\alpha}{2} = \frac{1}{2} \left( \chi_n + \frac{\alpha}{\chi_n} \right) + \chi_n \in \mathbb{N}$ ,  $\alpha > 0$ ,  $\chi_1 - \frac{\alpha}{2} = \frac{1}{2} \left( \chi_n + \frac{\alpha}{\chi_n} \right) + \chi_n \in \mathbb{N}$ . (su) I, orp. CH.  $\mathcal{L}_{2} = \frac{1}{2} \left( \alpha_{1} + \frac{9}{\alpha_{1}} \right) > 0$ , Att-to,  $\partial c_{1} > 0$   $\forall L \in \mathbb{N}$ ,  $2n = \frac{1}{2}\left(2n-1 + \frac{2}{2n-1}\right) = \frac{\sqrt{2}}{2}\left(\frac{2n-1}{\sqrt{2}} + \frac{\sqrt{2}}{2n-1}\right)$  $\{670, 6+\frac{1}{6}\} 2 \iff 6^2+1>26 \iff (6-1)^2>0\}$ 

$$\frac{\Omega_{n+1}}{\alpha_n} = \frac{1}{2} \left( 1 + \frac{\alpha}{\alpha_n} \right) \stackrel{(=)}{\in}$$

$$\frac{\alpha_n}{\alpha_n} \stackrel{(=)}{=} \alpha_n^2 \stackrel{(=)}{=} \alpha_n^2 \stackrel{(=)}{=} \frac{1}{\alpha_n} \stackrel$$