$$a_n = (2^{h}-1) c_n \Rightarrow \frac{1}{R!} = \limsup \sqrt{1(2^{h}-1) c_n 1} =$$

$$\Rightarrow$$
 $R' = \frac{R}{2}$

$$a_{n} = c_{n}^{\kappa} \implies \frac{1}{R!} = \limsup_{n \to \infty} \sqrt[n]{|c_{n}|} = \limsup_{n \to \infty} \left(\sqrt[n]{|c_{n}|}\right)^{\kappa} = \left(\limsup_{n \to \infty} \sqrt[n]{|c_{n}|}\right)^{\kappa} = \left(\frac{1}{R}\right)^{\kappa} \implies R! = R^{\kappa}$$

$$a_n = n^n c_n \implies \frac{1}{R!} = \limsup \sqrt{\ln^n c_n} = \limsup \sqrt{\ln^n . \sqrt[n]{c_n}} = \lim \sup_{n \to \infty} \sqrt{\ln^n . \sqrt[n]{c_n}} = \lim \lim_{n \to \infty} \sqrt{\ln^n . \sqrt[n]{c_n}} = \lim_{n \to \infty} \sqrt{\ln^n . \sqrt[n]{c_n}} = \lim_{n \to \infty} \sqrt{\ln^n . \sqrt[n]{c_n}} = \lim_{$$