$$1+\frac{1}{3^2}+\frac{1}{5^2}+\dots+\frac{1}{(2n-1)^2}+\dots=q_1+q_2+q_3+\dots+q_5+\dots<0> \sum_{N=1}^{6}q_N=\sum_{N=1}^{6}\frac{1}{(2n-1)^2}$$

$$= \left(\frac{S-D}{D}\right)_S = \left(\frac{S}{D}\right)_S = D_S = D$$

## 2. Doomanisense youther

## г. 1 Признак сровнения

$$q_{N} = \frac{1}{(N-1)^{2}} = \frac{1}{(N-1)^{2}} = \frac{1}{(N-1)^{2}} = \frac{1}{(N-1)^{2}} = \frac{1}{(N-1)^{2}}$$

$$\frac{a_{N+1}}{a_{N+1}} = \frac{(s(n+1)-1)s}{1} \left(\frac{(s(n+1)-1)s}{(s(n+1)-1)s}\right) = \frac{(s(n+1)-1)s}{(s(n+1)-1)s} = \frac{(s(n+1)-1)s}{(s(n+1)-1)s}$$

$$\lim_{N\to\infty}\frac{\partial^2 N}{\partial x^2}=\lim_{N\to\infty}\left(\frac{3n+1}{3n+1}\right)_S=\lim_{N\to\infty}\left(\frac{N\left(3+\frac{1}{N}\right)}{N\left(3+\frac{1}{N}\right)}\right)_S=\lim_{N\to\infty}\left(\frac{3+\frac{1}{N}}{3n+1}\right)_S=\frac{N\to\infty}{N}$$

$$= \left(\frac{2 - \lim_{h \to 0} \frac{1}{h}}{2 + \lim_{h \to 0} \frac{1}{h}}\right)^2 - \left(\frac{2 - 0}{2 + 0}\right)^2 - \left(\frac{2}{2}\right)^2 - 1^2 = 1$$

Durlen:  $\frac{1}{2} \frac{1}{(2n-1)^2} \frac{1$