

Koshi alomati

Faraz qilaylik, manfiy bo'lmagan hadlardan iborat qator berilgan:

$$\sum_{n=1}^{\infty} a_n = a_1 + a_2 + \cdots + a_n + \dots, \quad a_n \geq 0$$

Va quyidagi limit mavjud:

$$\lim_{n \rightarrow \infty} \sqrt[n]{a_n} = \ell$$

Unda:

1. Agar $\ell < 1$, unda qator $\sum a_n$ **yaqinlashadi**.
2. Agar $\ell > 1$, unda qator $\sum a_n$ **uzoqlashadi**.
3. Agar $\ell = 1$, unda qator $\sum a_n$ **yaqinlashishi ham, uzoqlashishi ham mumkin**. Bu holatda qatorni boshqa usullar yordamida tekshirish zarur.