2633.
$$\sum_{n=1}^{\infty} \left(n^{\frac{1}{n^2+1}} - 1 \right). \quad 2634. \quad \sum_{n=1}^{\infty} e^{\frac{a \ln n + b}{c \ln n + d}}.$$

2635.
$$\sum_{n=1}^{\infty} \frac{1}{\ln^2 \left(\sin \frac{1}{n}\right)}$$
.

$$2636. \sum_{n=1}^{\infty} \left(\cos \frac{a}{n}\right)^{n^3}.$$

2637.
$$\sum_{n=3}^{\infty} \ln \left(\frac{\operatorname{ch} \frac{\pi}{n}}{\cos \frac{\pi}{n}} \right).$$

2638.
$$\sum_{n=1}^{\infty} \frac{n!}{n^{\sqrt{n}}}.$$
 2639.
$$\sum_{n=2}^{\infty} \frac{n! r n}{(\ln n)^n}.$$

2640.
$$\sum_{n=1}^{\infty} \left(a^{1/n} - \frac{b^{1/n} + c^{1/n}}{2} \right) \quad (a > 0, b > 0, c > 0).$$

2641.
$$\sum_{n=1}^{\infty} (n^{n^{\alpha}}-1).$$

2642.
$$\sum_{n=1}^{\infty} \left[\ln \frac{1}{n^{\alpha}} - \ln \left(\sin \frac{1}{n^{\alpha}} \right) \right].$$

2643.
$$\sum_{n=1}^{\infty} a^{-(b \ln n + c \ln^2 n)} \quad (a > 0).$$

2644.
$$\sum_{n=1}^{\infty} \frac{n^{2n}}{(n+a)^{n+b} (n+b)^{n+a}} \quad (a>0, b>0).$$

2645.
$$\sum_{n=1}^{\infty} \frac{[(n+1)!]^n}{2! \cdot 4! \cdot \cdot \cdot (2n)!}.$$

Исследовать сходимость рядов $\sum_{n=1}^{\infty} u_n$ со следующими **со**щими членами: