$$2\,n^3 \geqslant 1 + n^3 \implies \sum_{n \geqslant 1} \frac{n^2}{1+n^3} \geqslant \frac{1}{2} \sum_{n \geqslant 1} \frac{1}{n} = \infty$$

$$\sum \frac{1}{2n+2} = +\infty\colon \quad \sum \frac{2n-1}{6n^2-1} = +\infty\colon \quad \sum \frac{4n-1}{n^2+3n-2} = +\infty\colon \quad \sum \frac{2n^2+3}{n^3-1} = +\infty$$

$$\sum \frac{3n-1}{2n^2+1} = +\infty\colon \quad \sum \frac{n^2+\sqrt{n}+1}{n^3+2\sqrt{n}+2} = +\infty\colon \quad \sum \frac{2n^2-1}{n^3+2n} = +\infty\colon \quad \sum \frac{n^{1/3}}{(n+1)^{2/3}} = +\infty$$

$$\sum \frac{n+1}{3n^3+n} < +\infty\colon \quad \sum \frac{n^2+2n+1}{4n^4-3n} < +\infty\colon \quad \sum \frac{n^2+1}{3n^4-n^2} < +\infty$$

$$\sum (100)^{-1/n} = +\infty$$

$$\sum \frac{n^2+5}{3^n n^3} < +\infty\colon \quad \sum \frac{n^5}{2^n+4^n} < +\infty\colon \quad \sum \frac{n^3+1}{2+3^n} < +\infty\colon \quad \sum \frac{n^3}{e^n} < +\infty\colon \quad \sum \frac{2n-1}{2^n} < +\infty$$

$$\sum n \left(\frac{2}{3}\right)^n < +\infty\colon \quad \sum \frac{5n^3}{3^n+4^n} < +\infty\colon \quad \sum \frac{n+\sqrt{n}}{2^n} < +\infty\colon \quad \sum \frac{2^n + {}^{n!}\mathfrak{s}}{3^n} < +\infty$$

$$\sum \frac{{}^{n}\not{\mathfrak{e}}}{n^3} < +\infty\colon \quad \sum \frac{{}^{n}\not{\mathfrak{e}}^{2}}{n+1} = +\infty$$

$$\sum \frac{n^3+1}{n!2^n} < +\infty$$

$$\sum \left(\frac{3n}{2n+1}\right)^n = +\infty\colon \quad \sum \left(\frac{3+2n}{4+3n}\right)^n < +\infty$$

$$\sum \left(\frac{1}{3}+\frac{3}{n^3}\right)^{3n} < +\infty\colon \quad \sum \left(\frac{1+{}^{n}\mathfrak{c}}{n}\right)^n < +\infty$$

$$\sum \frac{1}{n}{}^{1+1/n}\not{\mathfrak{e}} < +\infty\colon \quad \sum \frac{{}^{4+{}^{n}\mathfrak{s}}\not{\mathfrak{e}}}{n^2} < +\infty$$

$$\sum \frac{3^n 5^{n+1}}{n+1} = +\infty\colon \quad \sum \frac{n2^n}{n^2+1} = +\infty$$

$$\sum {}^{1/n}\mathfrak{s} = +\infty\colon \quad \sum \frac{{}^{1/n}\mathfrak{s}}{n} < +\infty\colon \quad \sum \frac{{}^{1/n}\mathfrak{s}}{\sqrt{n}} < +\infty$$

$$\sum {}^{1/\sqrt{n}}\mathfrak{t} = +\infty$$

$$\sum \frac{e^n}{n!} < +\infty\text{:} \quad \sum \frac{4^n}{n!}{}^{n!}\mathfrak{c} < +\infty$$

$$\sum \frac{n!}{n^n} < +\infty$$

$$\sum \frac{2n-1}{2^{n/2}} < +\infty$$

$$\sum \frac{n^3}{(3+3/n)^n} < +\infty$$

$$\sum \frac{2^n(n+1)^2}{n^3+n} = +\infty$$

$$\sum \frac{\left(n^2+n\right)^{1/3} - n^{2/3}}{n} < +\infty$$

$$\sum \left(\frac{(n+2)!}{n!+2}\right)^{2n} = +\infty\text{:} \quad \sum \left(\frac{n!+1}{(n+1)!}\right)^{2n} < +\infty\text{:} \quad \sum \left(\frac{(n+1)!+1}{n!}\right)^{n/3} = +\infty$$

$$\sum \frac{n^2+1}{n^3 2^n} < +\infty$$

$$\sum \sqrt{\tfrac{n^3+1}{n^3}\,\not{\mathfrak{c}}} < +\infty$$

$$\sum \frac{1+3^{2n}}{2^{3n}-1} = +\infty$$

$$\sum \left(\frac{n+1}{n}\right)^n \frac{1}{e} = +\infty$$

$$\sum \frac{\sqrt{n}}{3^{2n} n^n} < +\infty$$

$$\sum \left(\frac{1}{n^{n+1}}\right)^{1/n} = +\infty$$

$$\sum \frac{n!}{(n+2)!2^{3n}} < +\infty: \quad \sum \frac{n!3^n}{(2n)!} < +\infty: \quad \sum \frac{(n!)^2}{(2n)!} < +\infty: \quad \sum \frac{n!2^n}{n^n} < +\infty$$

$$\sum \frac{{}^{1/n}\mathfrak{t}^3}{{}^{1/n}\mathfrak{s}} < +\infty: \quad \sum \frac{{}^{3/\sqrt{n}}\mathfrak{t}^{2n}\mathfrak{c}}{{}^{1/n}\mathfrak{s}} = +\infty: \quad \sum \frac{{}^{1/n^2}\mathfrak{s}}{{}^{3/n}\mathfrak{t}} = +\infty$$

$$\sum \left(n\left(n+1\right)\left(n+2\right)\left(n+3\right)\right)^{-1/4} = +\infty$$

$$\sum n\left(\frac{1}{2}^n + \frac{1}{3}^n + \frac{1}{4}^n\right) < +\infty$$

$$\sum 2^n\left(\sqrt{n+1} - \sqrt{n}\right) = +\infty: \quad \sum \left(\sqrt{n^2+2} - \sqrt{n^2+1}\right) = +\infty$$

$$\sum {}^{1/\sqrt{n}}\mathfrak{s}\ {}^{3/\sqrt{n}}\mathfrak{t} = +\infty: \quad {}^{n^{-5/4}}\mathfrak{s}\ {}^{1/n}\mathfrak{c} < +\infty: \quad {}^{1/n}\mathfrak{s}\ {}^{1/\sqrt{n}}\mathfrak{c} = +\infty: \quad {}^{1/n}\mathfrak{s}\ {}^{1/n}\mathfrak{t} < +\infty$$

$$\sum {}^{2n^{-4/3}}\mathfrak{t}\ {}^{2/n}\mathfrak{s} < +\infty$$

$$\sum {}^{n^2+10}\not{\mathfrak{t}}^n = +\infty$$

$$\sum \frac{1}{n^n \not{\mathfrak{t}}} = +\infty$$

$$\sum \frac{\sqrt{{}^{1/n}\mathfrak{s}^{1/n}\mathfrak{c}}}{n} < +\infty: \quad \sum \frac{{}^{1/n}\mathfrak{t}^{2\,1/n}\mathfrak{s}}{n} < +\infty: \quad \sum \frac{{}^{n^{-1/3}}\mathfrak{s}}{n^{1/\sqrt{n}}\mathfrak{t}} = +\infty: \quad \sum \frac{1}{n^{3\,1/n}\mathfrak{s}} < +\infty$$

$$\sum_n^{\mathbb{N}} \frac{8^n 2 + 6^n 4}{12^n} = 14: \sum_{n \geqslant 2} 2^{-n} 5: \sum_n^{\mathbb{N}^\times} \frac{3}{10^n}: \sum_n^{\mathbb{N}^\times} \pi^{-n}: \sum_n^{\mathbb{N}} \frac{(-1)^n + 5^n}{7^n}$$

$$\cdot 888 = \cdot 8\left(1 + \frac{1}{10} + \frac{1}{10^2} + \cdots\right) = \frac{\cdot 8}{1 - \dfrac{1}{10}} = \frac{8}{9}: \cdot 239239\cdots$$

$$\sum_n^{\mathbb{N}} \frac{n^2}{2^n}$$

$$\sum_{1 \leqslant n} \frac{1}{n^{1+1/n}}$$