

$$\sum_{n \geq 1} \frac{-1^n}{n} = {}^2\mathcal{X}$$

$$\sum_{n > 0} \frac{-1^n}{n+i} = -i {}_1 \sum_{n \geq 1} \frac{-1^{n+i}}{n+i} = -i {}_1 \sum_{m > i} \frac{-1^m}{m} = -i \left( \sum_{m > 0} \frac{-1^m}{m} - \sum_{1 \leq m \leq i} \frac{-1^m}{m} \right) = -i \left( {}^2\mathcal{X} - \sum_{1 \leq m \leq i} \frac{-1^m}{m} \right)$$

$$\begin{aligned} \sum_{n > 0} -1^n \frac{an+b}{(n+i)(n+j)} &= \sum_{n > 0} \frac{-1^n}{i-j} \left( \frac{ia-b}{n+i} + \frac{b-ja}{n+j} \right) \\ &= -i {}_1 \frac{ia-b}{i-j} \left( {}^2\mathcal{X} - \sum_{1 \leq m \leq i} \frac{-1^m}{m} \right) + -j {}_1 \frac{b-ja}{i-j} \left( {}^2\mathcal{X} - \sum_{1 \leq m \leq j} \frac{-1^m}{m} \right) \\ &= \left( -i {}_1 \frac{ia-b}{i-j} + -j {}_1 \frac{b-ja}{i-j} \right) {}^2\mathcal{X} - \frac{ia-b}{i-j} \sum_{1 \leq m \leq i} \frac{-1^{m+i}}{m} - \frac{b-ja}{i-j} \sum_{1 \leq m \leq j} \frac{-1^{m+j}}{m} \end{aligned}$$

$$\sum \left( \frac{{}^n \mathfrak{S}}{n} \right)^n \text{ abs conv}$$

$$\sum \frac{2^{n!} \mathfrak{S}}{4^n} \text{ abs conv}$$

$$\sum -1^n \pi / (5n) \mathfrak{C} \text{ div}$$

$$\sum \frac{n! \mathfrak{S} + n^2 \mathfrak{C}}{n!} \text{ abs conv}$$

$$\sum -1^n \frac{1}{\sqrt{n+1}} \text{ cond conv}$$

$$\sum \frac{-1^n}{n^{2n} \mathcal{X}} \text{ cond conv}$$

$$\sum \frac{-1^{n_1/n^2} \mathfrak{S}}{\sqrt{n}} \text{ abs conv}$$

$$\sum \frac{n! \mathfrak{C}^2 - n! \mathfrak{S}^2}{2n!} \text{ abs conv}$$

$$\sum -1^n \frac{3+n}{3+n^2} \text{ cond conv}$$

$$\sum -1^n \frac{4+n}{n^2} \text{ cond conv}$$

$$\sum -1^{n^{1/n}} \mathbf{t} \text{ cond conv}$$

$$\sum -1^n \frac{1}{n^{2^n}} \text{ abs conv}$$

$$\sum -1^n \frac{1}{n^{n+1}} \text{ cond conv}$$

$$\sum -1^n \frac{1/n^2}{\sqrt{n}} \mathbf{t} \text{ abs conv}$$

$$\sum -1^n \frac{2^{n+1}}{e^n} \text{ abs conv}$$

$$\sum \frac{100^{n!}}{n!} \text{ abs conv}$$

$$\sum -1^{n+1} \left( \frac{2n+500}{3n+1000} \right)^n \text{ abs conv}$$

$$\sum \frac{-1^n}{(n+1)^n} \text{ cond conv}$$

$$\sum \frac{-1^n}{n^{2^n}} \text{ abs conv}$$

$$\sum \frac{-1^n}{n \log_{10}(n+1)} \text{ cond conv}$$

$$\sum -1^n \frac{2+n}{2+n^2} \text{ cond conv}$$

$$\sum \frac{4-1^n + n!}{2^n(n+1)} \mathbf{s} < +\infty$$

$$\sum \frac{-1^n + 3^n}{n^2} \mathbf{c} \text{ abs conv}$$

$$\sum \frac{n!}{n^n} \mathbf{s} \text{ abs conv}$$

$$\sum \frac{2-1^n + n\mathbf{c}}{n^2 5^n} \text{ abs conv}$$

$$\sum \frac{n! \mathbf{f}}{n^2} : \sum \frac{n \mathbf{f}}{n^2} \text{ abs conv}$$

$$\sum \frac{2n+1 \mathbf{f}}{n^2 - n} \text{ abs conv}$$

$$\sum \frac{2^{n-1} \mathbf{f}}{3^{n+1} n^4} \text{ abs conv}$$

$$\sum \frac{1+2-1^n}{2n^3} \text{ abs conv}$$

$$\sum_n^{\mathbb{N}^{\times}} 2 \left( -\frac{1}{3} \right)^{n+7}$$