$$ {}_n\text{Ꝉ} \times {}_n\text{Ⱡ} = \sum_{i+j=n} {}_i\text{Ꝉ} \times {}_j\text{Ⱡ} $$

$$ \sum_{0 \leqslant i} \ulcorner {}_i\text{Ꝉ} \urcorner < \infty $$

$$ \sum_{0 \leqslant j} {}_j\text{Ⱡ} \rightsquigarrow \Longrightarrow \sum_{0 \leqslant i} {}_i\text{Ꝉ} \times \sum_{0 \leqslant j} {}_j\text{Ⱡ} = \sum_{0 \leqslant n} \sum_{i+j=n} {}_i\text{Ꝉ} \times {}_j\text{Ⱡ} $$

$$ \sum_{0 \leqslant i} \ulcorner {}_i\mathbb{1} \urcorner < \infty \Longrightarrow \mathbb{1}_n = \sum_{0 \leqslant i \leqslant n} \mathbb{1}_i \rightsquigarrow \mathbb{1}_\infty $$

$$ {}_n\mathbb{1} = \sum_{0 \leqslant m \leqslant n} \sum_{i+j=m} {}_i\text{Ꝉ} \times {}_j\text{Ⱡ} $$

$$ \bigwedge_{\varepsilon > 0} \bigvee_{m}^{\mathbb{N}} \bigwedge_{k \geqslant m} \ulcorner {}_k\text{ⱡ} - {}_\infty\text{ⱡ} \urcorner \leqslant \varepsilon \Longrightarrow $$

$$ \bigwedge_{n \geqslant m} \ulcorner {}_n\mathbb{1} - {}_n\text{ⱡ} \times {}_\infty\text{ⱡ} \urcorner = \ulcorner \sum_{0 \leqslant k \leqslant n} \sum_{0 \leqslant j \leqslant k} {}_{n-k}\text{Ꝉ} \times {}_j\text{Ⱡ} - \sum_{0 \leqslant k \leqslant n} {}_{n-k}\text{Ꝉ} \times {}_\infty\text{ⱡ} \urcorner = \ulcorner \sum_{0 \leqslant k \leqslant n} {}_{n-k}\text{Ꝉ} \times ({}_k\text{ⱡ} - {}_\infty\text{ⱡ}) \urcorner $$

$$ \leqslant \sum_{k}^{m} \ulcorner {}_{n-k}\text{Ꝉ} \urcorner \ulcorner {}_k\text{ⱡ} - {}_\infty\text{ⱡ} \urcorner + \sum_{m \leqslant k \leqslant n} \ulcorner {}_{n-k}\text{Ꝉ} \urcorner \ulcorner {}_k\text{ⱡ} - {}_\infty\text{ⱡ} \urcorner \leqslant \varepsilon \left(1 + \sum_{0 \leqslant i} \ulcorner {}_i\text{Ꝉ} \urcorner \right) \Longrightarrow {}_n\mathbb{1} \rightsquigarrow {}_\infty\text{Ꝉ} \times {}_\infty\text{ⱡ} $$

$$ \sum_{0 \leqslant i} \ulcorner {}_i\mathbb{1} \urcorner < \infty \Longrightarrow \sum_{0 \leqslant k \leqslant n} \sum_{i+j=k} \ulcorner {}_i\text{Ꝉ} \times {}_j\text{Ⱡ} \urcorner \leqslant \sum_{0 \leqslant k \leqslant n} \sum_{i+j=k} \ulcorner {}_i\text{Ꝉ} \urcorner \ulcorner {}_j\text{Ⱡ} \urcorner \rightsquigarrow $$

$$ \sum_{0 \leqslant i} \ulcorner {}_i\text{Ꝉ} \urcorner \sum_{0 \leqslant j} \ulcorner {}_j\text{Ⱡ} \urcorner < \infty $$