$$\sum_{i=n}^{m} a_i = \sum_{j=n}^{m} a_j \qquad \text{(Indexumbenennung)}$$

$$\sum_{i=n}^{m} a_i = \sum_{i=n-l}^{m-l} a_{i+l} \qquad \forall\, l \in \mathbb{Z}, \qquad \text{(Indexverschiebung)}$$

$$\sum_{i=n}^{m} a_i + \sum_{i=m+1}^{k} a_i = \sum_{i=n}^{k} a_i, \qquad \text{sofern } n \le m < k,$$

$$\sum_{i=n}^{m} a_i + \sum_{i=n}^{m} b_i = \sum_{i=n}^{m} (a_i + b_i),$$

$$\sum_{i=n}^{m} c \cdot a_i = c \cdot \sum_{i=n}^{m} a_i \qquad \forall\, c \in \mathbb{R},$$

$$\sum_{i=n}^{m} a_i \cdot \sum_{j=l}^{k} b_j = \sum_{i=n}^{m} \sum_{j=l}^{k} a_i b_j$$