$$S \subset T \Rightarrow_{S} \overline{\subset}^{1T} \underset{\text{Moeb}}{=} (-1)^{\overline{T} \cup \overline{S}}$$

$$(-1)^{\overline{S} \cup \overline{S}} = (-1)^{0} = 1$$

$$R \underset{\neq}{\subseteq} T \Rightarrow \sum_{R \subset S \subset T} (-1)^{\overline{T} \cup \overline{S}} \underset{A = \overline{T} \cup S}{=} \sum_{A \subset T \cup R} (-1)^{\overline{A}} = \sum_{0 \leqslant i \leqslant |T \cup R|} (-1)^{i} \sum_{A \subset T \cup R}^{|A| = i} 1$$

$$= \sum_{0 \leqslant i \leqslant |T \cup R|} (-1)^{i} [\overline{T} \underset{i}{\overline{T}} \underset{\text{binomi}}{=} \overline{1 - 1}^{\overline{T} \cup \overline{R}} \underset{\overline{T} \cup \overline{R} > 0}{=} 0$$

$$\overset{=}{\varphi} \overline{\overset{-1}{C}}^{T} \underset{\text{Moeb}}{\stackrel{\text{red}}{=}} (-1)^{\overline{T}}$$