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$$\begin{split} & \sum_{p \in R} t_j(p) = 0 \\ \text{Let:} \quad & c_R(p) = \begin{cases} 1 \text{ if } p \in R \\ 0 \text{ if } p \notin R \end{cases} \\ \Rightarrow \quad & \sum_{p \in R} t_j(p) = t_j \cdot c_R = \sum_{p \in P} t_j(p) \cdot c_R(p) = 0 \\ & \text{Scalar product} \end{cases} \end{split}$$



























