



Given $\mathcal{R} = \{\mathcal{S}_1^*, \mathcal{S}_2^*, \dots, \mathcal{S}_{k_1}^*, \dots, \mathcal{S}_{k_1+k_2+k_3}^*\} \subset \mathcal{D}$:

For $\mathcal{S} \in \mathcal{D} : \exists \mathcal{S}^* \in \mathcal{R}$ such that $\mathcal{S} \sim \hat{\mathcal{S}}$.