

(a) (10p) Pair Mot support=2 extent= $d \in \mathbb{R}$ 

(b) Valmod Motif Sets support=depends on D extent= $r=D\cdot d\in\mathbb{R}$ 

(c) k-Motifs support depends on r extent= $r \in \mathbb{R}$ 

d) Learning Motifs support depends on r extent= $r \in \mathbb{R}$ 

(e) Range Motifs support depends on r extent=pairwise  $<2r \in \mathbb{R}$ 

support= $k \in \mathbb{N}$  extent depends on k