

קבוצות (כמות) של קבוצות (כמות) של קבוצות

equivalence, subset, fullness, emptiness, ...

... קבוצות של קבוצות של קבוצות

emptiness, fullness, ...

fullness, ...

$$L = \{ \langle A, E \rangle \mid L(A) \subseteq L(E) \}$$

...  $L \in \text{co-RE}$  ...

...  $L \notin R$  ...

... fullness, ...

$$G \mapsto \langle G, A \rangle$$

...  $L(A) \subseteq L(G)$  ...

$$L(G) = \Sigma^* \text{ fullness}$$

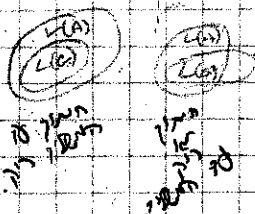
$$L(A) \subseteq L(G)$$

$$L(A) \subseteq L(G) \implies L(A) \subseteq L(G) \text{ fullness}$$

...  $L(A) \subseteq L(G)$  ...

$$L = \{ \langle G, A \rangle \mid L(G) \subseteq L(A) \}$$

$$L(A) \subseteq L(G) \implies L(A) \subseteq L(G) \text{ fullness}$$



...  $L(A) \subseteq L(G)$  ...

...  $L(A) \cap L(G)$  ...

...  $L(A) \subseteq L(G)$  ...

emptiness, ...

$$P/NP/EXPTIME \dots L = \{ \langle N, A, w \rangle \mid w \in L(N) \}$$

...  $L(N) \subseteq L(A)$  ...

...  $L(N) \subseteq L(A)$  ...