

In-class Practice 24: Complexity Theory

Give an example of, or state that none exists, or state that the existence/nonexistence has not yet been determined:

- (a) A problem in \mathcal{P}

- (b) A problem in \mathcal{NP} but not in \mathcal{P}

- (c) A problem not in \mathcal{NP}

- (d) A complexity class equal to \mathcal{PSPACE}

- (e) A regular language not in \mathcal{L}

- (f) A context-free language that is \mathcal{NP} -complete