CpSc 3500 — Goddard

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:

1. A problem in $\mathcal{P}$
2. A problem in $\mathcal{NP}$ but not in $\mathcal{P}$
3. A problem not in $\mathcal{NP}$
4. A complexity class equal to $\mathcal{PSPACE}$
5. A regular language not in $\mathcal{L}$
6. A context-free language that is $\mathcal{NP}$-complete