NP-Completeness

[term]

A problem can be one of these.

1. P:
2. NP:
3. NPC:
4. NP-Hard:
5. Co-NP:

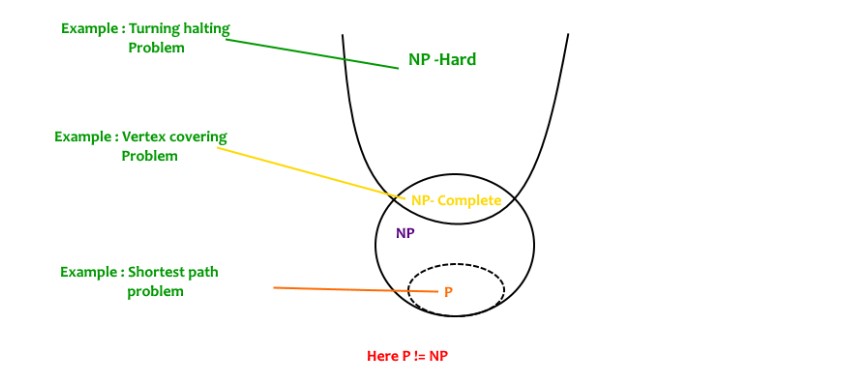
|  |  |  |  |
| --- | --- | --- | --- |
| Problem | Abbr | Time complexity | |
| Check solution | Find solution |
| P |  |  |  |
| NP |  |  |  |
| NPC |  |  |  |
| Co-NP |  |  |  |

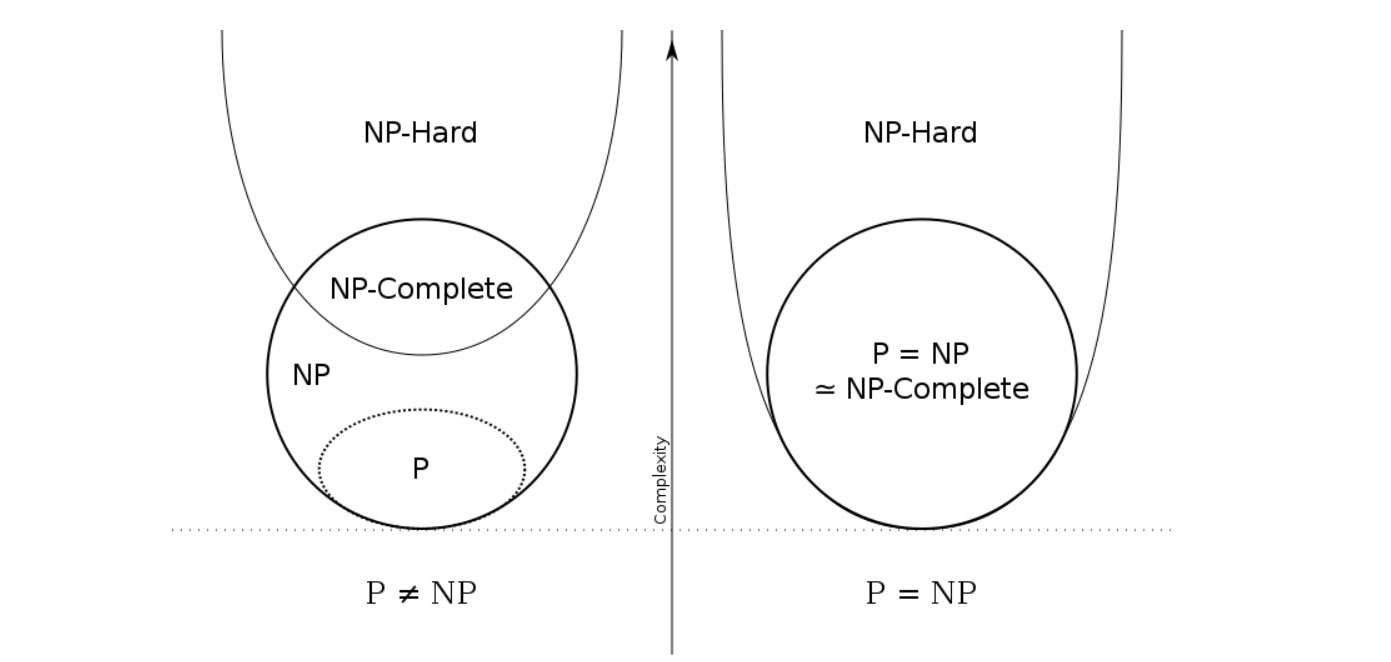
Nobody can prove that and , but almost people believe that .

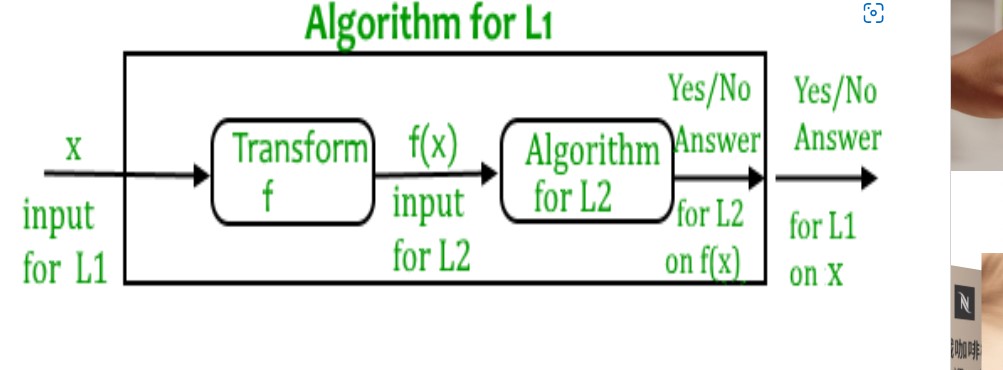
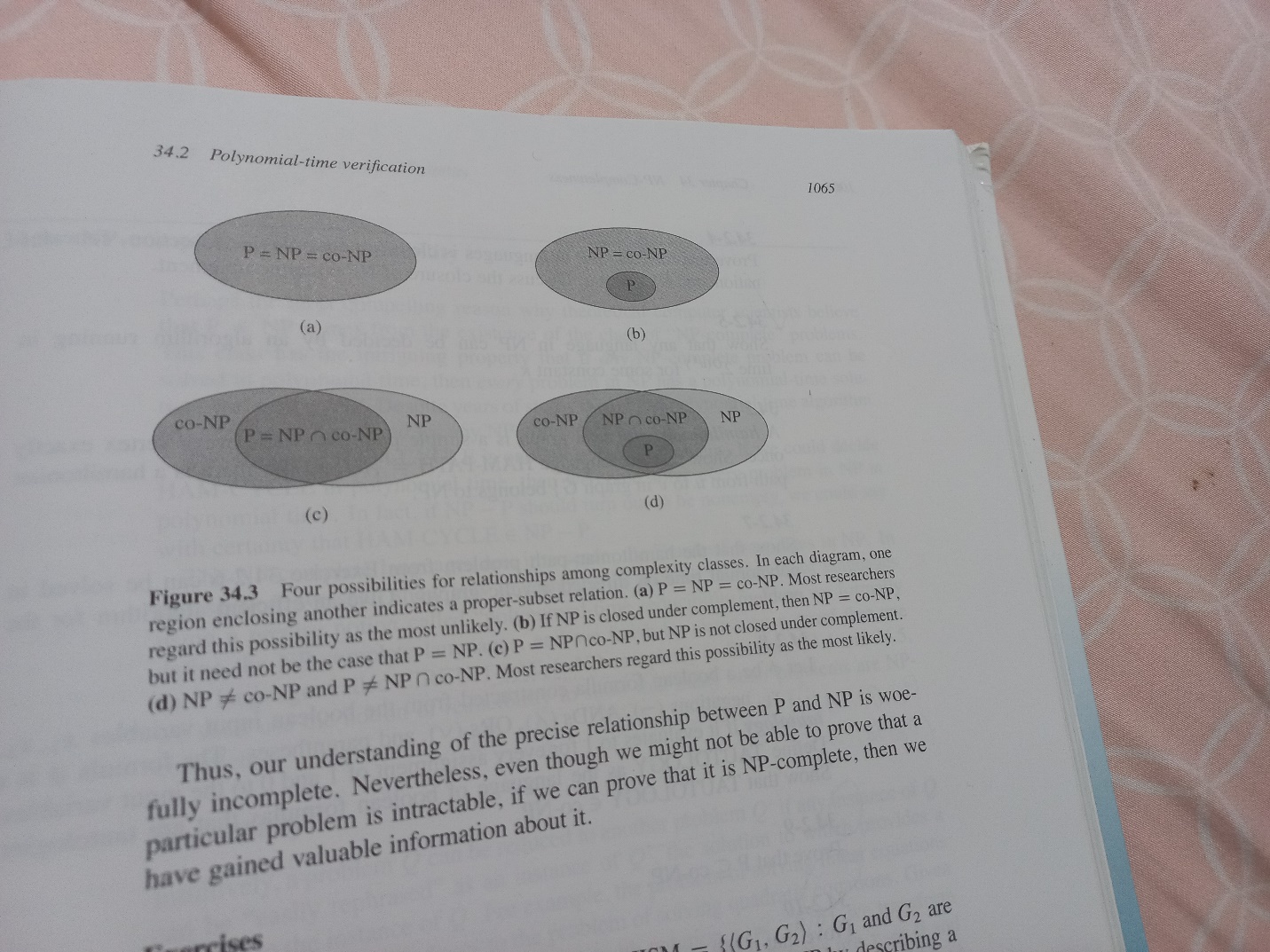
[theorem]

[pf]

2. Skip







[ref]

[NP-Completeness | Set 1 (Introduction) - GeeksforGeeks](https://www.geeksforgeeks.org/np-completeness-set-1/)

[輕鬆談演算法的複雜度分界：什麼是P, NP, NP-Complete, NP-Hard問題 - YC Note (ycc.idv.tw)](https://www.ycc.idv.tw/algorithm-complexity-theory.html)