Reduction [1-6]

\[ A \leq_p B \]

\[ P \leq P \]

\[ G-SPT \]

\[ CLT, WUE \]
Is this realistic?
Does there exist an NP-complete problem reducing 3SAT to CLIQUE?

3SAT is in Conjunctive Normal Form, so each clause has 1 3 variables.
\[ \phi = (x_1 \lor x_2 \lor x_3) \land (\overline{x_1} \lor \overline{x_2} \lor \overline{x_3}) \land (\overline{x_1} \lor x_2 \lor \overline{x_3}) \]

\[ k = 3 \]
$n^2 \times n^2 = n^{2k}$ Tableau size

variables of the SAT instance

$C = \text{OUTPUT} \{\text{disjoint}\} V$

$\{ x_i, j, s \in \{T,F\} \mid s \in C \}$

$ij \in \{nh^2\}$