exercise 6.2 - Resolution proposition

Using lock resolution grove the inconsistency of the following set of clauses. Choose two different indexings for the literals.

met 1. - first indexing  $S_2 = \begin{cases} g \vee 7\pi, & 7g \vee 7p \vee 7\pi, & 7g \vee p \vee 7\pi, & x \end{cases}$   $C_1 = c_1 2 \vee c_1 7\pi$   $C_2 = c_2 2 \vee 7\pi$   $C_3 = c_4 2 \vee c_1 7\pi$   $C_4 = c_4 2 \vee c_1 7\pi$   $C_5 = c_5 2 \vee 7p \vee 7r$   $C_6 = c_5 2 \wedge c_6 \wedge c_$ 

met 2 - second indexing  $C_1 = \{c_1, c_2, c_3\}$   $C_2 = \{c_1, c_2, c_3\}$   $C_3 = \{c_1, c_2, c_3\}$   $C_4 = \{c_3, c_4\}$   $C_4 = \{c_3, c_4\}$   $C_5 = \{c_4, c_4\}$   $C_6 = \{c_5, c_4\}$   $C_7 = \{c_7, c_8\}$   $C_8 = \{c_8, c_8\}$   $C_9 = \{c_9, c_9\}$   $C_9$ 

Conclusion:

Sz | lock [] => Sz is inconsistent.