⁷ Disjunctions again

the number of agents. Let number(D) be the ordering of a disjunction D. If After going through the conjunctions based approach, we have decided to go back to a enumeration of disjunctions. Firstly, we enumerate all possible disjunctions and take the move vectors based on this enumeration. Let k be

$$P \Rightarrow \langle\!\langle \mathcal{A} \rangle\!\rangle \bigcirc D$$

is in the set of clauses, we keep the edges labelled by $\langle a_1, \dots, a_k \rangle$, where $a_i = number(D)$, for all $i \in \mathcal{A}$, from s to s' such that

$$s \models P \text{ and } s' \models D$$

and for all $j \notin \mathcal{A}$

$$s' \models \bigwedge_{j \notin \mathcal{A}} number^{-1}(a_j).$$

other agents should not vote for a disjunction which is not satisfied at the successor. satisfy the disjunction on the right-hand side, then the successor should satisfy this disjunction. Moreover, the That is, if a state s satisfies the left-hand side of a step clause and all the agents in the coalition are voting to

for all $i \in \mathcal{A}$, and where a_j is arbitrary, for all $j \notin \mathcal{A}$, such that If we start with a full graph, we remove all edges from s to s' labelled by (a_1, \ldots, a_k) , where $a_i = number(D)$,

$$s \models P \text{ and } s' \not\models D$$

and, for all $j \notin \mathcal{A}$, we also remove all edges from s to s' such that

$$s' \not\models \bigwedge_{j \notin \mathcal{A}} number^{-1}(a_j).$$

7.1 Examples

Suppose we are given the following set of clauses:

1. true
$$\Rightarrow \langle \langle 1 \rangle \rangle \bigcirc p$$

2. true
$$\Rightarrow \langle \langle 2 \rangle \rangle \bigcirc (\neg p \lor q)$$

We start by enumerating all possible disjunctions:

$\neg p \lor \neg q$	$b \wedge d -$	$p \vee \neg q$	$p \vee q$	p	q	q	p	disjunction
7	6	۲٦.	4	3	2	1	0	ordering

 $\{0,1,2,3,4,5,6,7\}$. The move vectors are taken from \mathcal{L}^2 , as we have two agents. In this particular example, we The choices for each agent are the same in every state (which later will give rise to d(s,a)) is, then, $\mathcal{L}=$

the edges in the graph. have 64 different move vectors. As we start with the full graph, each edge goes to every state. Table 2 shows all

Now, suppose we add the first clause, that is,

1. **true**
$$\Rightarrow$$
 $\langle\!\langle 1 \rangle\!\rangle \bigcirc p$

is not satisfied in the successor. The removed edges are shown in yellow in Table 3. edges are shown in red. Furthermore, if agent 1 is voting to satisfy 0, agent 2 should not vote for a clause which Therefore, we remove the edges that violate this condition. The result is shown in Table 3, where the removed 2. The first condition says that there is an edge of the form (0,*) if, and only if, the successor state satisfies p. Therefore, we have to look at the edges that are of the form (0,*), where * is one of the possible moves for agent All states satisfy the left-hand side of this clause. The ordering of the disjunction on the right-hand side is 0.

Now, suppose we add the second clause, that is,

2. true
$$\Rightarrow \langle \langle 2 \rangle \rangle \bigcirc (\neg p \lor q)$$

for a clause which is not satisfied in the successor. The removed edges are shown in green in Table 4. removed edges are shown in blue. Furthermore, if agent 2 is voting 6 to satisfy $(\neg p \lor q)$, agent 2 should not vote 1. The first condition says that there is an edge of the form (*,6) if, and only if, the successor state satisfies Therefore, we have to look at the edges that are of the form (*,6), where * is one of the possible moves for agent $(\neg p \lor q)$. Therefore, we remove the edges that violate this condition. The result is shown in Table 4, where the All states satisfy the left-hand side of this clause. The ordering of the disjunction on the right-hand side is 6.

build a model for this set of clauses, as there are edges labelled by all move vectors in \mathcal{L}^2 leaving from each node. Suppose, however, that we want to add the following clause: Now, note that the resolvent from 1 and 2 is satisfied by the move vector (0,6). Note as well that we can

3. true
$$\Rightarrow \langle \langle 1, 2 \rangle \rangle \bigcirc q$$
 [1,2,SRES]

are not voting, that is, the empty conjunction is satisfied by all states. shown in Table 5, where the removed edges are shown in pink. No other restriction applies, as the other agents This would remove the edges labelled by (1,1) from each state to a state that does not satisfy q. The result is

Finally, suppose we want to add the following clause

true
$$\Rightarrow$$
 $\langle\!\langle\emptyset\rangle\!\rangle\bigcirc\neg q$

the disjunction on the right-hand side of this clause. As the coalition is empty, the condition applies to all edges. then, we observe that the first condition says that will keep the edges where all agents in the coalition vote for removed edges are shown in purple. Therefore, any edges leading to states that do not satisfy $\neg q$ are removed. This is shown in Table 6, where the

Note that there is no edge labelled by (0,6) leaving any state. All states are deleted. The graph is empty.

	$\neg p, \neg q$	$\neg p, q$	$p, \neg q$	p,q
$\neg p, \neg q$	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)
	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
$\neg p, q$	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
171	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)
	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
$p, \neg q$	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
1, 1	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)
	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
p,q	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
1,1	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)

Table 2: Vector moves for $\mathcal{P} = \{p,q\}$ and $\Sigma = \{1,2\}$

	$\neg p, \neg q$	$\neg p, q$	$p, \neg q$	p,q
$\neg p, \neg q$	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)
	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
$\neg p, q$	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
171	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)
	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
$p, \neg q$	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
1, 1	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)
	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
p,q	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
1 / 1	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)

Table 3: Vector moves for $\mathcal{P} = \{p,q\}$ and $\Sigma = \{1,2\}$ after adding the first clause

	$\neg p, \neg q$	$\neg p, q$	$p, \neg q$	p,q
$\neg p, \neg q$	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)
	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
$\neg p, q$	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
171	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)
	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
$p, \neg q$	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
1, 1	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)
	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
p,q	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)

Table 4: Vector moves for $\mathcal{P} = \{p,q\}$ and $\Sigma = \{1,2\}$ after adding the first and the second clauses

	$\neg p, \neg q$	$\neg p, q$	$p, \neg q$	p,q
$\neg p, \neg q$	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)
	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
$\neg p, q$	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
171	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)
	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
$p, \neg q$	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
17 1	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)
	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
p,q	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)

Table 5: Vector moves for $\mathcal{P} = \{p,q\}$ and $\Sigma = \{1,2\}$ after adding the first and the second clauses, as well as their resolvent

	$\neg p, \neg q$	$\neg p, q$	$p, \neg q$	p,q
$\neg p, \neg q$	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)
	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
$\neg p, q$	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
1,1	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)
	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
$p, \neg q$	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)
	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)	(0,0)(0,1)(0,2)(0,3)(0,4)(0,5)(0,6)(0,7)
	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)	(1,0)(1,1)(1,2)(1,3)(1,4)(1,5)(1,6)(1,7)
	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)	(2,0)(2,1)(2,2)(2,3)(2,4)(2,5)(2,6)(2,7)
p,q	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)	(3,0)(3,1)(3,2)(3,3)(3,4)(3,5)(3,6)(3,7)
	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)	(4,0)(4,1)(4,2)(4,3)(4,4)(4,5)(4,6)(4,7)
	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)	(5,0)(5,1)(5,2)(5,3)(5,4)(5,5)(5,6)(5,7)
	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)	(6,0)(6,1)(6,2)(6,3)(6,4)(6,5)(6,6)(6,7)
	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)	(7,0)(7,1)(7,2)(7,3)(7,4)(7,5)(7,6)(7,7)

Table 6: Vector moves for $\mathcal{P}=\{p,q\}$ and $\Sigma=\{1,2\}$ after adding clauses 1, 2, 3 and 4