Problem 2(b)

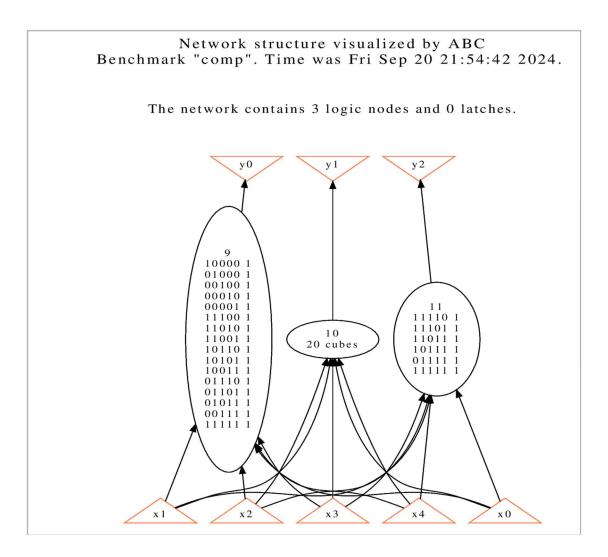
1.

```
abc 01> read ./lsv/pa1/comp.blif abc 02> ■
```

2.

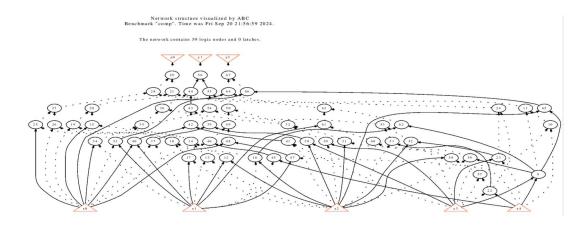


3.



abc 02> strash abc 03> ■

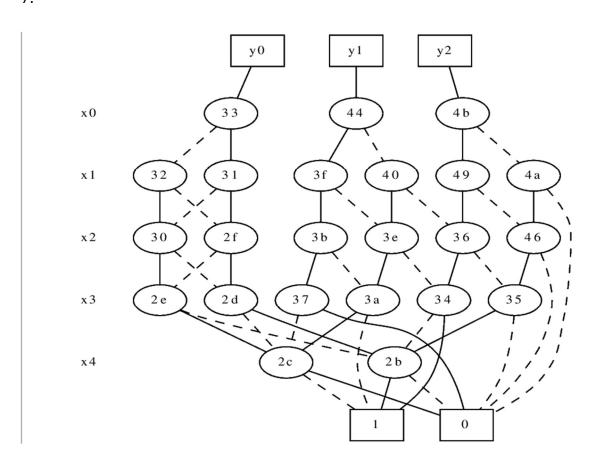
5.



6.

abc 03> collapse abc 04> ■

7.



Problem 3(a)

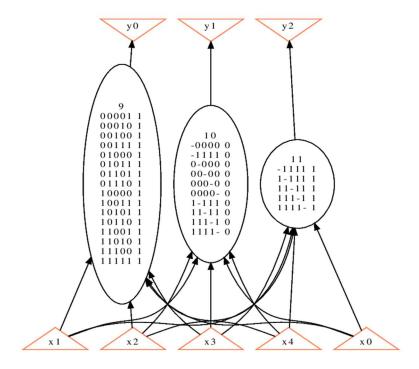
1.

In command 'aig',



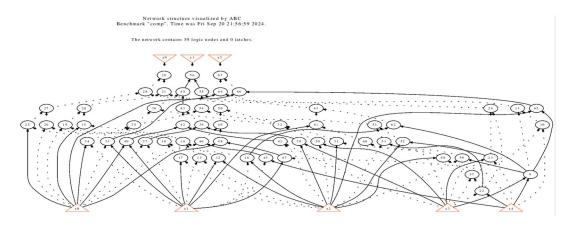
Network structure visualized by ABC Benchmark "comp". Time was Fri Sep 20 22:00:30 2024.

The network contains 3 logic nodes and 0 latches.



In command strash,





As shown in the above figures, the command 'aig' contains 65 aig components and only 1 level. At the contrast, the command 'strash' contains 59 and components and up to 8 levels. To sum up, the latter produces a more concise structure than the former; however, the level of the network is highly increased at the expense.

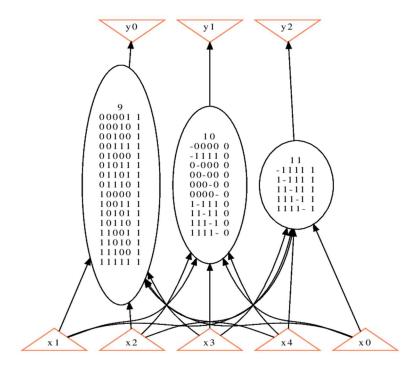
2.

In command 'bdd',



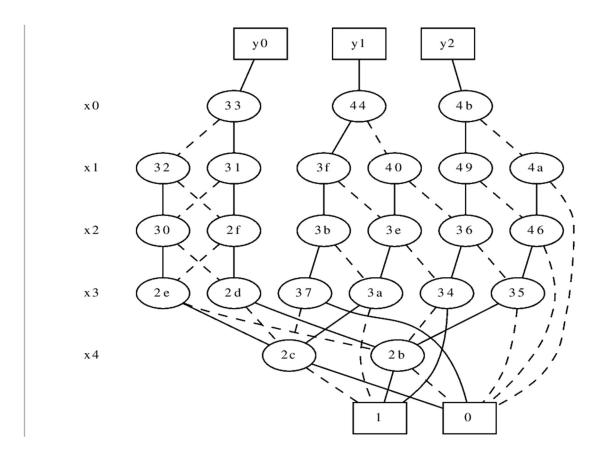
Network structure visualized by ABC Benchmark "comp". Time was Fri Sep 20 22:00:30 2024.

The network contains 3 logic nodes and 0 latches.



In command 'collapse',





The two command seem to produce the same outcomes.

Problem 3(b)

```
abc 01> read ./lsv/pa1/comp.blif
abc 02> strash
abc 03> logic
abc 04> show
```

