

6.6 1, 3, 4, 5, 8, 9, 10, 11, 13, 15, 16, 19, 20

1.

| | | |
|------|------|-----|
| | y' | y |
| x' | 1 | 0 |
| x | 0 | 1 |

9. $(x' \wedge y') \vee (x \wedge y)$

10. $(x \wedge y') \vee (x' \wedge y) \vee (x' \wedge y)$

11. $z' \vee (x' \wedge z)$

13. $(z' \wedge y) \vee (x \wedge y') \vee (y' \wedge z)$

15. $(z \wedge x') \vee (x \wedge y \wedge w') \vee (w \wedge x \wedge y')$

16. $(x' \wedge z') \vee (x' \wedge z \wedge w) \vee (w' \wedge x \wedge y)$

3.

| | | | | |
|------|------|------|-----|------|
| | y' | y' | y | y |
| x' | 0 | 1 | 1 | 0 |
| x | 0 | 0 | 1 | 1 |
| | z' | z | z | z' |

19. $(x' \wedge y') \vee (x \wedge z')$

20.

| | | | | |
|------|------|------|-----|------|
| | y' | y' | y | y |
| x' | 1 | 0 | 0 | 0 |
| x | 1 | 0 | 0 | 0 |
| | z' | z | z | z' |

4.

| | | | | |
|------|------|------|-----|------|
| | y' | y' | y | y |
| x' | 1 | 0 | 0 | 0 |
| x | 1 | 1 | 0 | 1 |
| | z' | z | z | z' |

$(z' \wedge x' \wedge y') \vee (x \wedge y' \wedge z')$

5.

| | | | | | |
|------|------|------|-----|------|------|
| | z' | z' | z | z | |
| x' | 0 | 1 | 1 | 0 | y' |
| x' | 0 | 0 | 0 | 0 | y |
| x | 0 | 1 | 1 | 0 | y |
| x | 0 | 1 | 0 | 1 | y' |
| | w' | w | w | w' | |

8

| | | | |
|---|---|---|---|
| 0 | 0 | 0 | 1 |
| 0 | 0 | 1 | 1 |
| 1 | 0 | 1 | 0 |
| 1 | 1 | 0 | 1 |
| 0 | 1 | 0 | 0 |
| 1 | 0 | 0 | 0 |