

RIDUZIONE 3-SAT < SUBSET-SUM

lunedì 12 giugno 2023

12:07

$$\phi = (\overline{x_1} \vee x_2 \vee \overline{x_3}) \wedge (x_1 \vee x_2 \vee x_3) \wedge (x_1 \vee \overline{x_2} \vee x_3) \wedge (\overline{x_1} \vee \overline{x_2} \vee \overline{x_3}) \quad 6+8=14$$

| | x_1 | x_2 | x_3 | x_4 | x_5 | x_6 | x_7 |
|----------|-------|-------|-------|-------|-------|-------|-------|
| x_1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| x_2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| x_3 | 0 | 1 | 0 | 1 | 1 | 0 | 0 |
| x_4 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| x_5 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| x_6 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| x_7 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| x_8 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| x_9 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| x_{10} | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| x_{11} | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| x_{12} | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

$t_1 = \text{new}$
 $t_2 = \text{false}$
 $t_3 = \text{new}$