

Πρόβλημα 2)

| x_1 | x_2 | x_3 | x_4 | f |
|-------|-------|-------|-------|-----|
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 1 | 0 |
| 0 | 1 | 0 | 0 | 1 |
| 0 | 1 | 0 | 1 | 0 |
| 0 | 1 | 1 | 0 | 0 |
| 0 | 1 | 1 | 1 | 1 |
| 1 | 0 | 0 | 0 | 1 |
| 1 | 0 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 | 0 |
| 1 | 0 | 1 | 1 | 1 |
| 1 | 1 | 0 | 0 | d |
| 1 | 1 | 0 | 1 | 0 |
| 1 | 1 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 | d |

| $x_3 \backslash x_1 x_2$ | 00 | 01 | 11 | 10 |
|--------------------------|----|----|----|----|
| 00 | 0 | 1 | d | 1 |
| 01 | 0 | 0 | 0 | 0 |
| 11 | 0 | 1 | 0 | 1 |
| 10 | 0 | 0 | d | 0 |

$$f = (x_1 + x_2)(\bar{x}_3 + x_4)(x_3 + \bar{x}_4)$$