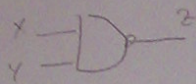


2) Odredi ito parametre za NAND sklop.



$$NAND(x, y) = ITE(x, \bar{y}, 1)$$

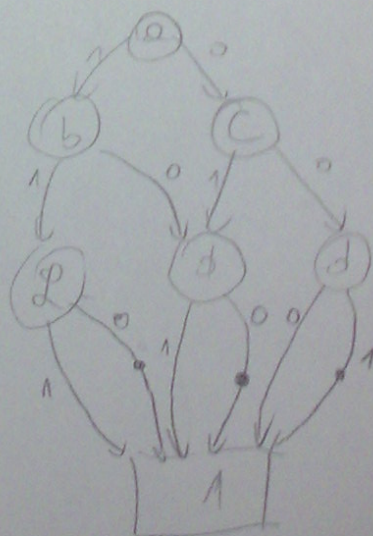
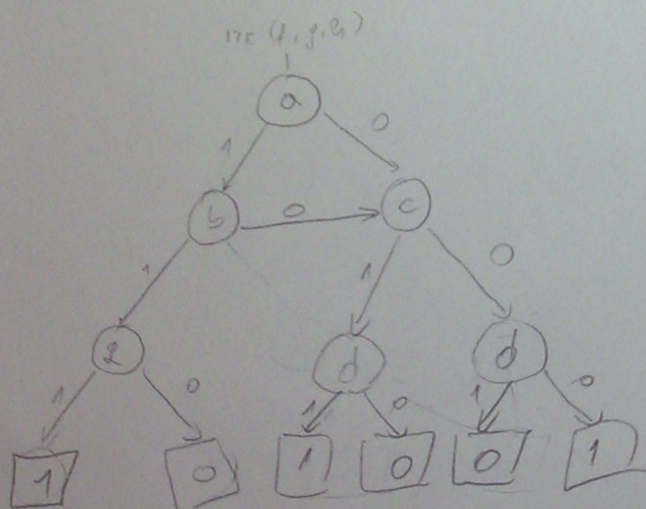
X	Y	Z
0	0	1
0	1	1
1	0	1
1	1	0

$$\left. \begin{array}{l} x=0 \rightarrow z=1 \\ x=1 \rightarrow z=\bar{y} \end{array} \right\}$$

3) Ekspanzija po Shannon po varijabli x dolozi:

$$\begin{aligned} f(x, y) + f(x, \bar{y}) &= f(x) + f(y) \\ x \cdot f(1, y) + \bar{x} \cdot f(0, y) &+ x \cdot f(1, \bar{y}) + \bar{x} \cdot f(0, \bar{y}) \\ &= x \cdot f(1) + \bar{x} \cdot f(y) + x \cdot f(y) + \bar{x} \cdot f(0) \\ &= x \cdot f(1) + \underbrace{f(y) (\bar{x} + x)}_1 + \bar{x} \cdot f(0) \\ &= \underbrace{x \cdot f(1) + \bar{x} \cdot f(0)}_{ekspanzija po x} + f(y) \\ &= f(x) + f(y) // \end{aligned}$$

3) Navedi BDD: pojednostavi s komplementiranim literalima dijelove funkcije.
 $ITE(f, g, h) = ITE(a, (b, \bar{a}, (c, d, \bar{d})), (c, d, \bar{d}))$



$$\phi + \psi = H$$

$$0.8 = 6$$

⑦ Value of redox $F = a + b$

