

①k) $\bar{p} \Rightarrow (q \Rightarrow r) \sim \overline{\bar{p} \wedge q \Rightarrow r} \sim \overline{\bar{p} \wedge (q \wedge \bar{r})} \sim \bar{p} \wedge q \wedge \bar{r}$

a)

p	q	r	$\bar{p}$	$q \Rightarrow r$	$\bar{p} \Rightarrow (q \Rightarrow r)$
0	0	0	1	1	1
0	0	1	1	1	1
0	1	0	1	0	0
0	1	1	1	1	1
1	0	0	0	1	1
1	0	1	0	1	1
1	1	0	0	0	1
1	1	1	0	1	1

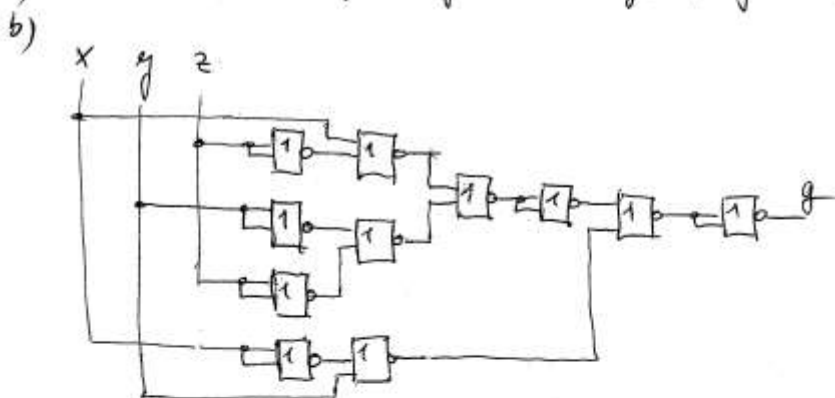
b) formula nie je
trubová, lebo
 $(0,1,0) \mapsto 0$,
je splniteľná,
lebo napr.
 $(0,0,0) \mapsto 1$

② a) $f(x, y, z) = (x \uparrow y) \downarrow z = \overline{\overline{xy} + z} = \overline{\overline{xy}} \cdot \overline{z} = xy\overline{z} = \text{AND}(f)$

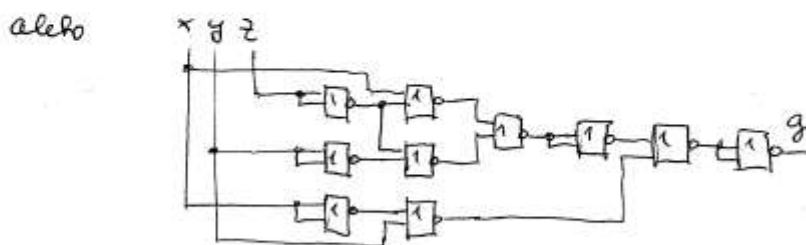
b) $\Rightarrow g(f) = \{(1, 1, 0)\} \Rightarrow c) \mu(f) = \{(0, 0, 0), (0, 0, 1), (0, 1, 0), (0, 1, 1), (1, 0, 0), (1, 0, 1), (1, 1, 1)\}$

$$\stackrel{c)}{=} d) \quad \text{WKF}(f) = (x+y+z)(x+y+\bar{z})(x+\bar{y}+z)(x+\bar{y}+\bar{z})(\bar{x}+y+z)(\bar{x}+y+\bar{z}) \cdot (\bar{x}+\bar{y}+\bar{z})$$

$$\textcircled{3}_a) g(x, y, z) = \bar{x}z + yz + x\bar{y} = \bar{x}z + yz + x\bar{y} = x + z + \bar{y} + \bar{z} + \bar{x} + y = P_2(g)$$



(1400



apodone ;)