$f(b,a) = b \wedge a$

	a	
b	1	0
	0	0

$h(d,c,b,a) = \bar{d}\bar{c}\bar{b}\bar{a} \ v \ d\bar{c}\bar{b}\bar{a} \ v \ ca$

		a		
0	0	1	0	
1	0	1	0	b
0	0	1	0	
1	0	1	0	
		c		

(d on left)

$j(d,c,b,a) = \bar{b}\bar{a} \ v \ ba$

		a		
1	0	0	1	
0	1	1	0	b
0	1	1	0	
1	0	0	1	
		c		

(d on left)

$g(c,b,a) = ca \ v \ \bar{c}\bar{b}\bar{a}$

		a		
1	0	1	0	
0	0	1	0	b
0	0	1	0	
1	0	1	0	
		c		

$t(d,c,b,a) = d \vee ba \vee \bar{d}c\bar{b} \vee ca$

$k(d,c,b,a) = \bar{c}\bar{b}\bar{a} \vee \bar{c}a \vee \bar{d}a$

4 a) $f(d,c,b,a) = \bar{b}a \vee ((d \vee c)\,\bar{\wedge}\,(b \not\leftrightarrow \bar{a}))$

$\Leftrightarrow \bar{b}a \vee \overline{((d\vee c) \wedge (b \not\leftrightarrow \bar{a}))}$

$\Leftrightarrow \bar{b}a \vee \overline{(d\vee c)} \vee \overline{(b \not\leftrightarrow \bar{a})}$

$\Leftrightarrow \bar{b}a \vee (\bar{d}\wedge\bar{c}) \vee (\bar{b} \leftrightarrow a)$

$\Leftrightarrow \bar{b}a \vee \bar{d}\bar{c} \vee (\overline{\bar{b} \oplus a})$

$\Leftrightarrow \bar{b}a \vee \bar{d}\bar{c} \vee \bar{b}a \vee b\bar{a}$

$\Leftrightarrow (\bar{b}\wedge a) \vee (\bar{d}\wedge\bar{c}) \vee (b \wedge \bar{a})$

b) $a\bar{b}$: $a\bar{b}cd \vee a\bar{b}\bar{c}d \vee a\bar{b}\bar{c}\bar{d} \vee a\bar{b}c\bar{d}$

$\bar{c}\bar{d}$: $ab\bar{c}\bar{d} \vee \bar{a}b\bar{c}\bar{d} \vee a\bar{b}\bar{c}\bar{d} \vee \bar{a}\bar{b}\bar{c}\bar{d}$

$\bar{a}b$: $\bar{a}bcd \vee \bar{a}bc\bar{d} \vee \bar{a}b\bar{c}d \vee \bar{a}b\bar{c}\bar{d}$

KDNF: $\bar{a}\bar{b}\bar{c}\bar{d} \vee \bar{a}b\bar{c}\bar{d} \vee a\bar{b}\bar{c}\bar{d} \vee \bar{a}bc\bar{d} \vee \bar{a}b\bar{c}d \vee a\bar{b}\bar{c}d \vee a\bar{b}\bar{c}d \vee a\bar{b}c\bar{d} \vee a\bar{b}cd \vee \bar{a}bcd$