4. a)

٧,	Υ2	/ ×3	X, V X2	x <sub>1</sub> =) x	(3 / 7X	12   161	3 \ \
7	T	7	7	T	F	F	7
<u></u>	T	F	7	·F	F	F	7
7	F	T	T	7	7	T	7
T	F	F	7	ド	1	F	r-
F	7	T	Т	7	P	F	7
F	7	12	Т	7	F	F	7
F	F	7	F	7	7	/ F	T
F	F	F	F	7	7	F	F

ki) = 
$$(x_1 vx_2) \wedge (x_1 \Rightarrow y_1) \wedge \neg x_2$$
  
 $x = x_1 vx_2$   
 $x = x_2 vx_2$   
 $x = x_3 vx_3$   
 $x = x_3 vx_2$   
 $x = x_3 vx_3$   
 $x$ 

<b>h</b> )	<b>x</b> ,	×2	Χz	x, v x3	x1 = 7 x2	/ KB	×
	7	7	7	7	F	F	F
	7	+	F	7	Γ-	۴	F
	7	F	7	7	7	7	7
	T	F	F	7	7	7	7
	F	7	7	7	T	<u></u>	FX
	+	7	F	þ	7	F	72
	FT	F	T	7	T	7	T
	F	P	F	F	7	F	1
	- 1	,					