1. 0)

X	Y	X+Y	X+Y	(X+Y)(X+X)
0	0	0		0
0			0	0
	0			
(1	

P)

X	Y	X+Y	X(X+Y)
0	0	1 0	0
0	1	\	D
1	0	\	
	\		

(C)

X		Y	X+Y	$(\times \uparrow \overline{Y}) Y$
0	0	1	1	0
0	\	0	O	0
	0	\		\circ
1		D		

2.

a)
$$Y = \overline{ABC} + \overline{ABC} = \overline{AB(C+C)} = \overline{AB}$$

b) $Y = \overline{ABC} + \overline{AB} = \overline{A} + \overline{B} + \overline{C} + \overline{AB} = \overline{A} + \overline{B}(1+\overline{A}) + \overline{C}$
 $= \overline{A} + \overline{B} + \overline{C}$

C) Y = ABCP + ABCD + (A+B+C+D)

= ABCD + ABCD

3. a) /XY	f (x,y,z) = \(\xi(0,1,2,3,7)\)			
2/00	01 11	16		
0/1	10	0	f = X + Y = Z	
		O		

b)
$$f(x_1y_1,w_1z) = \xi(2,3,5,6,7,10,11,13,14)$$
 $w_2^{XY} = 00 01 11 10 f = \overline{\chi}w + \overline{\gamma}w + w_2$
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