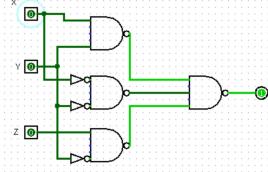
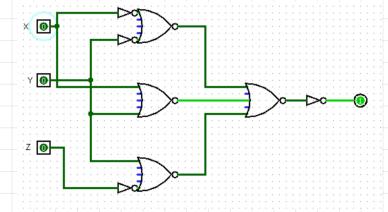
KRISH	SHAH		Sec	cfim	AZ	V175802512
(v)	z X,Y	00 01	11	0)	PIS	= x11 12
	0	0 (	0	0	6P Is	$x = x^{1}y + y^{2}$
	ı	0 1	1	0	γx	+72
(6)	2 11	00 01	11	10	PIs:	x' y'z
	0		0	0	EPIs:	: x' Y'Z
		l l	0		$\overline{\hat{\chi}} + \overline{\hat{\chi}}$	Ÿ2
(a) (a)	ABICO	00	01	11	10	
	00	0	1	1	O	PISS CD ABD ABC ABD EPISS CD ABD ABD
	10	0	l	0	0	0,12- C2 WAR URD
	(1	1	1	0	1	CD+ ABD+ABD
	(0)	0	1	0	0	
11)						
(b)	AB/CO	00	01	11	10	
_	00	0	0	1	0	PIS' AB BOD ACD BOD EPIS' AB BOD BOD
	01	(	)	1	1	
	(1		0	0	0	AB+BCD+BCD
	(0)	0	0	1	0	

(3)	ABICO	00	01	11	10	
(a)	00		0	0	X	<del>-</del>
		1				
	10	0	X	X	1	_ CO+BO+BCO
		0	\	X	1	
	0)	X	0	×	1	
(6)	ABICO	00	01	11	10	
	00	0	×	1	X	
	10	X	0	0	X	AB+BC+ACD
	(1	0	0	1	0	IND ( BO ) NOD
	(0)	ı	X	· l	1	
(4) (a)	WX/ 12	00	01		10	
	00	1	0	0	1	SOP: WX + XZ + WXY
	10	1	0	0	1	POS: (W+Z) (W+X) + (Y+Z)
	(1	0	0	O	0	
	0)	ı	1	0	1	
(b)	WX) 12	00	01		10	
	00	(	0	· ·	0	SOP: YZ + XYZ + W XZ
	10	\	0	0	1	POS: (4+2) (x+2) (with +2) (x+7+2)
	(1	l l	0	D	0	
	(0)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0	1	0	

(5) (a)	rx/s	00	01	(1)	10	
	0	1	0	1	6	_
	ı	1	0	\		_
	X1+X7+7Z	-				
	×					
		<u>-</u>			<b>.</b>	
	Y <b>0</b>	<b>⊳</b> o—				-0
	z <b>(0</b>	Do				
(b)	(M) (M)	) (7z)	<u>-</u>			
×						
Y 0			```			
z <b>o</b>			<i>)</i> ° • • •			



(c) 
$$(\overline{x+y}) + (\overline{x+y}) + (\overline{y+z}) = \overline{(x+y)} + (\overline{x+y}) + (\overline{y+z})$$



(6)	WX 12	00	01		0
	00	0	0	(	0
	10	1		0 0	$(\overline{(xy)}(\overline{yx})(\overline{x}yz))$
	(1	1		,	
	(0)	0	0		O
(7)	WX 12	00	01	11 10	
	00	0	0	, 0	
	10	Ţ	_	0 6	$(\overline{x+y})+(\overline{y+x})+(x+\overline{y+z})$
	(1)	(	\	( )	
	(0)	0	0	1 0	<u> </u>
(8)	(a) xyz				
	000	1		z/xy c	01 11 10 00
	010	i		0	1 1 0 0
	011	0		1	1 0 0 0
	(01	0		F - Vol. 1 0	V2
	110	0		F= XY + ?	NZ
(b)	) XYZ				
	000	0		2/X/ 00	01 11 10
	001	0		0 0	0 0 0
	011	1			1 1 )
	(0)	0	<del>-</del>	1 1	
	110	0			
	(1)	1		F=Z	

(9) module question9 (A,B,S,F);
output F;
input A,B,S;
wire w1, w2, w3;
not (w1,S);
and (w2, A, w1);
and (w3,B,S);
or (F, w2,w3);

endmodule