

Nama : Ferza Reyaldi

NIM : 09021281029060

$$16. f(v, w, x, y, z) = \sum (9, 11, 13, 15, 17, 21, 25, 27, 29, 31)$$

term	v	w	x	y	z	term	v	w	x	y	z		
9	0	1	0	0	1	✓	9,11	0	1	0	-	1	✓
17	1	0	0	0	1	✓	9,13	0	1	-	0	1	✓
11	0	1	0	1	1	✓	17,21	1	0	-	0	1	✓
13	0	1	1	0	1	✓	17,25	1	-	0	0	1	✓
21	1	0	1	0	1	✓	11,15	0	1	-	1	1	✓
25	1	1	0	0	1	✓	11,27	-	1	0	1	1	✓
15	0	1	1	1	1	✓	13,15	0	1	1	-	1	✓
27	1	1	0	1	1	✓	13,29	-	1	1	0	1	✓
29	1	1	1	0	1	✓	21,29	1	-	1	0	1	✓
31	1	1	1	1	1	✓	25,27	1	1	0	-	1	✓
							25,29	1	1	-	0	1	✓
							15,31	-	1	1	1	1	✓
							27,31	1	1	-	1	1	✓
							29,31	1	1	1	-	1	✓

term	v	w	x	y	z	term	v	w	x	y	z	
9,11,13,15	0	1	-	-	1	✓	9,11,13,15,25,27,29,31	-	1	-	-	1
9,11,25,27	-	1	0	-	1	✓						
9,13,25,29	-	1	-	0	1	✓						
17,21,25,29	1	-	-	0	1							
17,25,21,29	1	-	-	0	1							
11,15,27,31	-	1	-	1	1	✓						
11,27,15,31	-	1	-	1	1	✓						
13,15,29,31	-	1	1	-	1	✓						
13,29,15,31	-	1	1	-	1	✓						
25,27,29,31	1	1	-	-	1	✓						
25,29,27,31	1	1	-	-	1	✓						



	9	11	13	15	17	21	25	27	29	31
Bentuk prima										
✓ 17, 21, 25, 29					x	x	x		x	
✓ 9, 11, 13, 15, 25, 27, 29, 31	x	x	x	x			x	x	x	x
	*	*	*	*	*	*		*		*
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Bentuk prima yang terpilih:

17, 21, 25, 29 yang bersesuaian dengan term  $Vy'z$   
 9, 11, 13, 15, 25, 27, 29, 31 yang bersesuaian dengan term  $wz$ .

Fungsi boolean hasil penyederhanaan adalah  $f(v, w, x, y, z) = Vy'z + wz$ .