

16)

$A \neq 0$

BC \ DE	00	01	11	10
00	1	1	1	1
01				
11				
10				

$\overline{D} \cdot \overline{E}$

$R_D = \overline{D} \overline{E}$

$A = 1$

BC \ DE	00	01	11	10
00	1	1	1	1
01				
11				
10				

17)

$A \neq 0$

BC \ DE	00	01	11	10
00	1			1
01		1	1	
11			1	
10				1

$C \overline{D} E$

$B C E$

$\overline{A} \overline{B} \overline{C} \overline{E}$

$R_D = C \overline{D} E + B C E + \overline{A} \overline{B} \overline{C} \overline{D} E + \overline{B} \overline{C} \overline{D} E + \overline{A} \overline{B} \overline{C} E$

$A = 1$

BC \ DE	00	01	11	10
00				1
01		1	1	
11			1	
10				1

$\overline{A} \overline{B} \overline{C} \overline{D} E$

$\overline{B} \overline{C} \overline{D} E$

$R_D = C \overline{D} E + B C E + \overline{A} \overline{B} \overline{C} \overline{D} E + \overline{B} \overline{C} \overline{D} E + \overline{A} \overline{B} \overline{C} E$

18)

$A \neq 0$

BC \ DE	00	01	11	10
00		1		
01			1	1
11			1	
10				1

$\overline{A} \overline{B} \overline{C} E$

$\overline{A} \overline{C} \overline{D} E$

$R_D = B E + \overline{A} \overline{B} \overline{C} E + \overline{A} \overline{C} \overline{D} E + \overline{A} \overline{C} \overline{D} E$

$A = 1$

BC \ DE	00	01	11	10
00				
01		1	1	
11			1	
10				1

$B E$

$\overline{A} \overline{C} \overline{D} E$

$\overline{A} \overline{C} \overline{D} E$

$A \neq 0$

BC \ DE	00	01	11	10
00			1	1
01	1			
11			1	
10				1

$\overline{A} \overline{B} \overline{C}$

$\overline{B} \overline{D} E$

$B C D E$

$B \overline{C} \overline{E}$

$R_D = \overline{A} \overline{B} \overline{C} + \overline{B} \overline{D} E + B C D E + B \overline{C} \overline{E}$

$A = 1$

BC \ DE	00	01	11	10
00				1
01	1			
11			1	
10				1