

kmap

	CD			
	00	01	11	10
AB	00	1 ₀	1 ₁	1 ₃
	01	0 ₄	0 ₅	0 ₇
	11	0 ₁₂	0 ₁₃	0 ₁₅
	10	1 ₈	0 ₉	0 ₁₁

1. $A'B' + BD' + CD'$

	CD			
	00	01	11	10
AB	00	1 ₀	1 ₁	1 ₃
	01	0 ₄	0 ₅	1 ₆
	11	0 ₁₂	0 ₁₃	1 ₁₄
	10	1 ₈	0 ₉	0 ₁₁

2. $AB' + A'C + BD' + CD'$

	CD			
	00	01	11	10
AB	00	1 ₀	0 ₁	1 ₃
	01	1 ₄	0 ₅	1 ₇
	11	0 ₁₂	1 ₁₃	1 ₁₅
	10	0 ₈	0 ₉	0 ₁₁

3. $A'C'D' + A'CD + ABD$

	CD			
	00	01	11	10
AB	00	1 ₀	0 ₁	1 ₃
	01	1 ₄	0 ₅	1 ₇
	11	0 ₁₂	1 ₁₃	1 ₁₅
	10	0 ₈	0 ₉	1 ₁₁

4. $A'C'D' + AB'C + ABD + CD$

	CD			
	00	01	11	10
AB	00	1 ₀	1 ₁	0 ₃
	01	1 ₄	0 ₅	0 ₇
	11	0 ₁₂	0 ₁₃	0 ₁₅
	10	1 ₈	1 ₉	0 ₁₁

5. $A'C'D' + B'C' + B'D'$

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