

6.5 Perform two-level logic size optimization for the function $F(a, b, c, d) = ab + a'b'd'$ using a K-map. Express the answer as sum-of-products.

F		cd			
		00	01	11	10
ab	00	1	0	0	1
	01	0	0	0	0
	11	1	1	1	1
	10	0	0	0	0

$$F(a,b,c,d) = ab + a'b'd'$$