

- 6.8 Consider the function $F(a, b, c) = a'c + ac + a'b$. Using a K-map, determine which of the following terms are *implicants* (but not necessarily prime implicants) of the function: $a'b'c'$, $a'b'$, $a'bc$, $a'c$, c , bc , $a'bc'$, $a'b$.

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

Implicants listed in the question:

~~$a'b'c'$~~ , ~~$a'b'$~~ , $a'bc$, $a'c$, c , bc , $a'bc'$, $a'b$