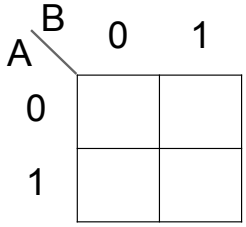
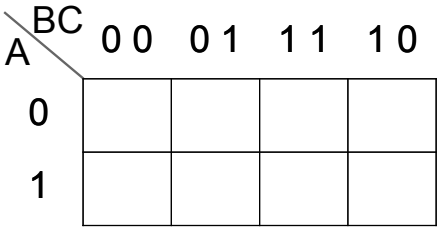
Logic Minimization

A B	F
0 0	0
0 1	1
1 0	0
1 1	1

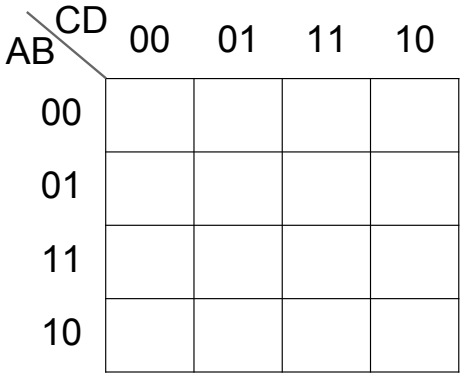


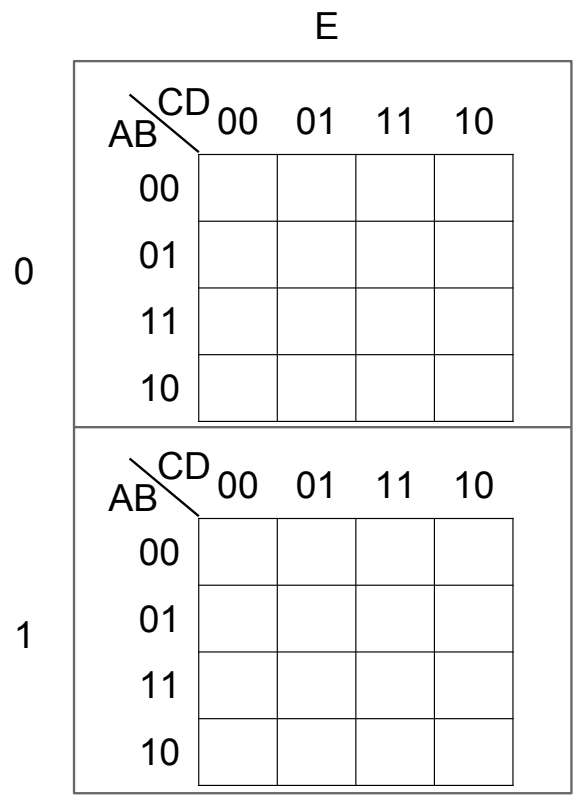
Karnaugh Maps

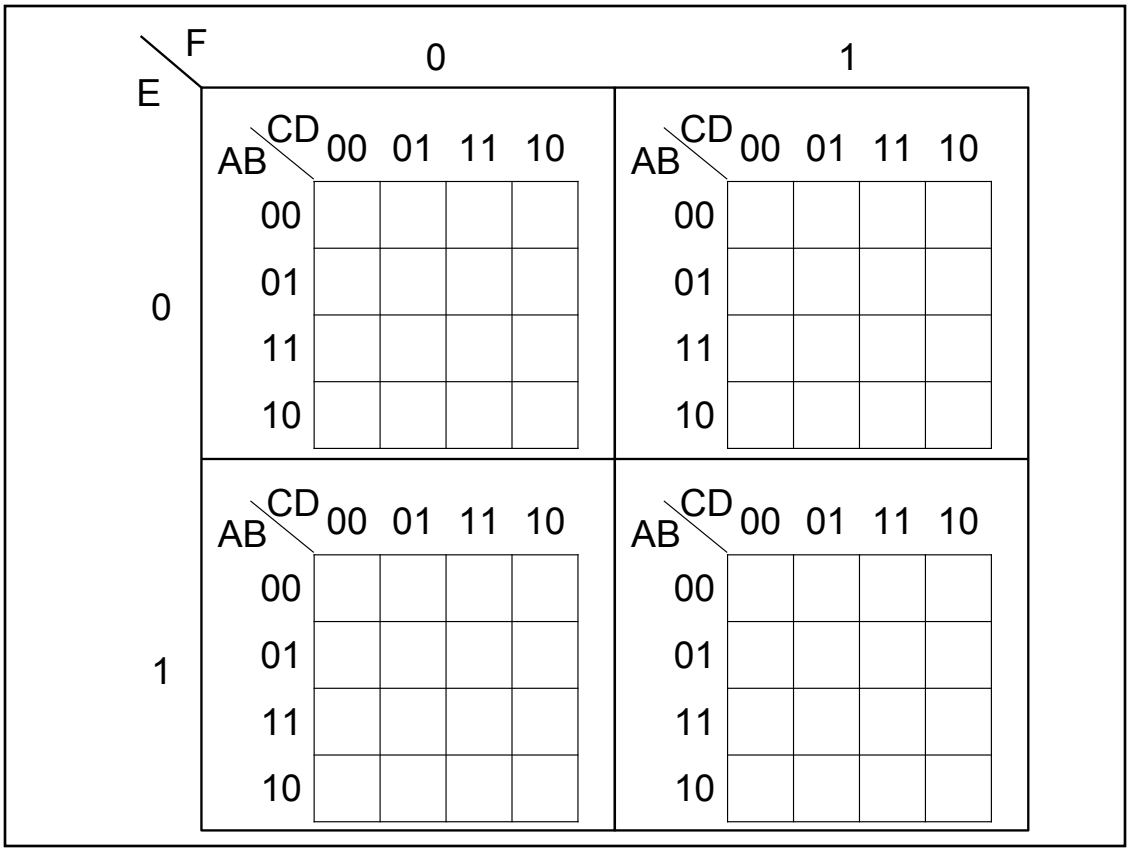
A B C	F
0 0 0	0
0 0 1	1
0 1 0	0
0 1 1	1
1 0 0	0
1 0 1	1
1 1 0	0
1 1 1	0



Karnaugh Maps







Karnaugh Maps

A \ BC	0 0	0 1	1 1	1 0
0	0	1	1	0
1	0	1	0	0

$F =$

Karnaugh Maps

A \ BC	0 0	0 1	1 1	1 0
0	0	1	0	1
1	1	0	0	1

$F =$

A \ BC	0 0	0 1	1 1	1 0
0	0	1	1	1
1	0	1	1	1

F =

Karnaugh Maps

A \ BC	0 0	0 1	1 1	1 0
0	0	0	1	1
1	1	1	1	1

F =

Karnaugh Maps

AB \ CD	00	01	11	10
00	0	1	0	0
01	1	1	0	1
11	1	1	0	1
10	1	1	0	1

$F =$

Karnaugh Maps

AB \ CD	00	01	11	10
00	1	0	0	1
01	1	1	0	0
11	1	1	1	1
10	1	0	0	1

$F =$

E

0

AB \ CD	00	01	11	10
00	1	1	0	0
01	1	1	0	1
11	0	0	0	1
10	0	0	0	0

1

AB \ CD	00	01	11	10
00	0	0	0	0
01	0	0	0	1
11	0	0	0	1
10	1	1	1	1

F =

F / E

0

0

AB \ CD	00	01	11	10
00	1	1	0	0
01	1	1	0	1
11	0	0	0	1
10	0	0	0	0

1

AB \ CD	00	01	11	10
00	0	0	0	0
01	0	0	0	1
11	0	0	0	1
10	0	0	0	0

1

0

AB \ CD	00	01	11	10
00	1	1	0	0
01	1	1	0	1
11	0	0	0	1
10	0	0	0	0

1

AB \ CD	00	01	11	10
00	0	0	0	0
01	0	0	0	1
11	0	0	0	1
10	1	1	1	1

F =

Karnaugh Maps

A \ BC	0 0	0 1	1 1	1 0
0	0	1	1	0
1	0	1	0	0

$F =$

Karnaugh Maps

A \ BC	0 0	0 1	1 1	1 0
0	0	1	0	1
1	1	0	0	1

$F =$

AB \ CD	00	01	11	10
00	0	1	1	0
01	0	1	0	0
11	0	1	0	0
10	1	1	1	1

$F =$

Logic Minimization

Karnaugh Maps

A \ BC	0 0	0 1	1 1	1 0
0	0	1	1	1
1	0	ϕ	ϕ	0

SOP:
$F =$

POS:
$F =$

AB \ CD	00	01	11	10
00	0	0	0	1
01	ϕ	ϕ	1	ϕ
11	1	1	1	1
10	ϕ	0	ϕ	1

SOP:
$F =$

POS:
$F =$