

Class Activity 3

A.

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

Simplification: $Y = A + B'$

B.

Z \ xy				
	00	01	11	10
0	1 <small>m₀</small>	0 <small>m₂</small>	1 <small>m₆</small>	1 <small>m₄</small>
1	0 <small>m₁</small>	1 <small>m₃</small>	0 <small>m₇</small>	0 <small>m₅</small>

Simplification: $Y = XZ' + Y'Z' + X'YZ$

C.

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

Simplification: $Y = A'B' + A'C + B'C$

D.

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

Simplification: $Y = C'D + AD + AB'C$