Name ______ Per ____

ICT K-Mapping Homework #2

Use K-Maps to write a simplified minterm boolean expression.

1)
$$\overline{ABC} + AB\overline{C} + A\overline{BC} + \overline{ABC} = Y$$

2)
$$\overline{ABC} + \overline{ABC} + \overline{ABC} = Y$$

3)
$$\overline{ABC} + A\overline{BC} + AB\overline{C} + \overline{ABC} = Y$$

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$$\overline{A}B + AB + \overline{A}\overline{B} = Y$$

For each of the given Truth Tables, write the original boolean expression and the simplified boolean expression. Remember to show all K-Map work below.

1.

Α	В	C	Y
0	0	0	1
0	0	1	0
0	1	0	1
0	1	1	0
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	1

2.

A	В	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Original Expression:	Original Expression:	
Simplified Expression:	Simplified Expression:	

Show all K-Map Work Here!

Show all K-Map Work Here!