

Задачи

1. Постройте выражения для логических функций, заданных таблицами истинности. Используйте разные методы и сравните их.

а)	<table border="1"><thead><tr><th>A</th><th>B</th><th>X</th></tr></thead><tbody><tr><td>0</td><td>0</td><td>0</td></tr><tr><td>0</td><td>1</td><td>1</td></tr><tr><td>1</td><td>0</td><td>0</td></tr><tr><td>1</td><td>1</td><td>1</td></tr></tbody></table>	A	B	X	0	0	0	0	1	1	1	0	0	1	1	1	б)	<table border="1"><thead><tr><th>A</th><th>B</th><th>X</th></tr></thead><tbody><tr><td>0</td><td>0</td><td>1</td></tr><tr><td>0</td><td>1</td><td>0</td></tr><tr><td>1</td><td>0</td><td>1</td></tr><tr><td>1</td><td>1</td><td>1</td></tr></tbody></table>	A	B	X	0	0	1	0	1	0	1	0	1	1	1	1	в)	<table border="1"><thead><tr><th>A</th><th>B</th><th>X</th></tr></thead><tbody><tr><td>0</td><td>0</td><td>0</td></tr><tr><td>0</td><td>1</td><td>1</td></tr><tr><td>1</td><td>0</td><td>0</td></tr><tr><td>1</td><td>1</td><td>0</td></tr></tbody></table>	A	B	X	0	0	0	0	1	1	1	0	0	1	1	0	г)	<table border="1"><thead><tr><th>A</th><th>B</th><th>X</th></tr></thead><tbody><tr><td>0</td><td>0</td><td>0</td></tr><tr><td>0</td><td>1</td><td>0</td></tr><tr><td>1</td><td>0</td><td>1</td></tr><tr><td>1</td><td>1</td><td>0</td></tr></tbody></table>	A	B	X	0	0	0	0	1	0	1	0	1	1	1	0
A	B	X																																																																	
0	0	0																																																																	
0	1	1																																																																	
1	0	0																																																																	
1	1	1																																																																	
A	B	X																																																																	
0	0	1																																																																	
0	1	0																																																																	
1	0	1																																																																	
1	1	1																																																																	
A	B	X																																																																	
0	0	0																																																																	
0	1	1																																																																	
1	0	0																																																																	
1	1	0																																																																	
A	B	X																																																																	
0	0	0																																																																	
0	1	0																																																																	
1	0	1																																																																	
1	1	0																																																																	

2. Постройте выражения для логических функций, заданных таблицами истинности. Используйте разные методы и сравните их.

а)	<table border="1"><thead><tr><th>A</th><th>B</th><th>C</th><th>X</th></tr></thead><tbody><tr><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>0</td><td>0</td><td>1</td><td>1</td></tr><tr><td>0</td><td>1</td><td>0</td><td>1</td></tr><tr><td>0</td><td>1</td><td>1</td><td>1</td></tr><tr><td>1</td><td>0</td><td>0</td><td>0</td></tr><tr><td>1</td><td>0</td><td>1</td><td>0</td></tr><tr><td>1</td><td>1</td><td>0</td><td>1</td></tr><tr><td>1</td><td>1</td><td>1</td><td>0</td></tr></tbody></table>	A	B	C	X	0	0	0	0	0	0	1	1	0	1	0	1	0	1	1	1	1	0	0	0	1	0	1	0	1	1	0	1	1	1	1	0	б)	<table border="1"><thead><tr><th>A</th><th>B</th><th>C</th><th>X</th></tr></thead><tbody><tr><td>0</td><td>0</td><td>0</td><td>1</td></tr><tr><td>0</td><td>0</td><td>1</td><td>0</td></tr><tr><td>0</td><td>1</td><td>0</td><td>0</td></tr><tr><td>0</td><td>1</td><td>1</td><td>0</td></tr><tr><td>1</td><td>0</td><td>0</td><td>1</td></tr><tr><td>1</td><td>0</td><td>1</td><td>0</td></tr><tr><td>1</td><td>1</td><td>0</td><td>1</td></tr><tr><td>1</td><td>1</td><td>1</td><td>1</td></tr></tbody></table>	A	B	C	X	0	0	0	1	0	0	1	0	0	1	0	0	0	1	1	0	1	0	0	1	1	0	1	0	1	1	0	1	1	1	1	1	в)	<table border="1"><thead><tr><th>A</th><th>B</th><th>C</th><th>X</th></tr></thead><tbody><tr><td>0</td><td>0</td><td>0</td><td>1</td></tr><tr><td>0</td><td>0</td><td>1</td><td>1</td></tr><tr><td>0</td><td>1</td><td>0</td><td>1</td></tr><tr><td>0</td><td>1</td><td>1</td><td>0</td></tr><tr><td>1</td><td>0</td><td>0</td><td>0</td></tr><tr><td>1</td><td>0</td><td>1</td><td>0</td></tr><tr><td>1</td><td>1</td><td>0</td><td>1</td></tr><tr><td>1</td><td>1</td><td>1</td><td>0</td></tr></tbody></table>	A	B	C	X	0	0	0	1	0	0	1	1	0	1	0	1	0	1	1	0	1	0	0	0	1	0	1	0	1	1	0	1	1	1	1	0
A	B	C	X																																																																																																														
0	0	0	0																																																																																																														
0	0	1	1																																																																																																														
0	1	0	1																																																																																																														
0	1	1	1																																																																																																														
1	0	0	0																																																																																																														
1	0	1	0																																																																																																														
1	1	0	1																																																																																																														
1	1	1	0																																																																																																														
A	B	C	X																																																																																																														
0	0	0	1																																																																																																														
0	0	1	0																																																																																																														
0	1	0	0																																																																																																														
0	1	1	0																																																																																																														
1	0	0	1																																																																																																														
1	0	1	0																																																																																																														
1	1	0	1																																																																																																														
1	1	1	1																																																																																																														
A	B	C	X																																																																																																														
0	0	0	1																																																																																																														
0	0	1	1																																																																																																														
0	1	0	1																																																																																																														
0	1	1	0																																																																																																														
1	0	0	0																																																																																																														
1	0	1	0																																																																																																														
1	1	0	1																																																																																																														
1	1	1	0																																																																																																														