20 pts

Name: _____

Class Day / Time: _____

Due Date: _____

Lab #2 – Boolean Operations

1. Use a truth table to determine whether the expression $XY' + X'Y + X'Y' = X' + Y$ is true or false. Use the conventional counting order of the variables, i.e. 00, 01, 10, 11.

Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9
X	Y	X'	Y'	XY'	X'Y	X'Y'	XY'+X'Y+X'Y'	X'+Y
0	0							
0	1							
1	0							
1	1							

The expression $XY' + X'Y + X'Y' = X' + Y$ is   **TRUE   FALSE** (circle one)

Why? _____

2. Draw the switch diagram for the expression **A' (BC + AB' + A'B):**