Java Name –
Boolean Algebra Worksheet #1

Simplify the following expressions as much as possible using DeMorgan's Law & other identities such as !!A = A. Show all of your steps for full credit.

1. `!(num > 0 && temp <= 0)`

2. `!(sum < 5 || !(num > 0))`

3. `!(num > 0 && num > 0)`

4. `!(!(num > 0) || temp <= 0) && num > 0`

5. `temp <= 0 || num > 0 && (num > 0 || temp <= 0) || temp <= 0`

6. Complete the truth table below to determine if B || A && (A || B) || B is equivalent to A || B

A	B	A || B	A && (A || B)	B || A && (A || B)
0	0			
0	1			
1	0			
1	1			