

*De Morgan's Laws*

**NOT A AND NOT B =NOT (A OR B)**

**NOT A OR NOT B =NOT (A AND B)**

A	B	A OR B
true	true	true
true	false	true
false	true	true
false	false	false

A	B	A AND B
true	true	true
true	false	false
false	true	false
false	false	false

A	NOT A
true	false
false	true

A	B	NOT A	NOT B	NOT A AND NOT B
true	true	false	false	false
true	false	false	true	false
false	true	true	false	false
false	false	true	true	true

A	B	A OR B	NOT (A OR B)
true	true	true	false
true	false	true	false
false	true	true	false
false	false	false	true

A	B	NOT A	NOT B	NOT A OR NOT B
true	true	false	false	false
true	false	false	true	true
false	true	true	false	true
false	false	true	true	true

A	B	A AND B	NOT (A AND B)
true	true	true	false
true	false	false	true
false	true	false	true
false	false	false	true

A	B	NOT A	NOT A AND B
true	true	false	false
true	false	false	false
false	true	true	true
false	false	true	true