Create the truth tables for each Comparison, If a case exists that is true, draw a box around the specified case.

(Example)

A || B

F F -> F

F T -> T

T F -> T

T T -> T

1 . A && A

2. A && B

3. ! A || (B && !( C || A))

4. (A && !A)

5. ! ( A xor B) \* expand xor relationship this time.

6. ! ( A && B )

7. ! B || !A

8. Evaluate if the identity for #6 and #7 are equivalent.

9. Give a definition for DeMorgan’s Law

10. ((! ( A xor ( (( !A && B ) || C ) && !B)) || !C) && D) \*\*\* ATTACH ANOTHER PIECE OF PAPER, for this question make sure you identify each possible permutation of A, B, C, and D. Try to find and make a sentence that defines this property when it is true. Then try and create a different identity that is equivalent.