Worksheet Exercise 2.11.B. Name _____

Demonstrating Logical Truths Class _____ Date _____

Part B. Give deductions to show that the following sentences are truths of Logic, i.e., tautologies. Use the space on these two pages efficiently.

1. (B V S) ⊃ (~B ⊃ S)
2. P V (P ⊃ Q)
3. (A & (B & C)) V [A ⊃ (~B V ~C)]
4. (S & ~M) ⊃ (S V M)
5. (A & B & C) ⊃ (B V Q)
6. [(Q ⊃ U) & ~U] ⊃ ~Q
7. [(P V Q) & (P ⊃ R)] ⊃ (R V Q)
8. (A & B) V (A & ~B) V (~A & B) V (~A & ~B)

Ex. 2. 11. B. Name _____ / _____