HW: Propositional Logic

(1) (Indicate the strings that are members of $\mathcal{L}(\Sigma)$, where $\Sigma = \mathcal{L}A, B, C3$:

_ BVC

- $(B\Rightarrow C)$

_ (B⇒True) / (False ⇒True)

_ (B⇒

- (BVC) \models C

- (ANBNOC)

- ((AVB) N (BV-C))

- 7(AVB)

_ (A⇒D)

__ 777B

2) If $\Sigma = \{A, B, C\}$, compute $I(((A \Rightarrow B) \lor (B \Rightarrow \neg C)))$

3) Prove I(n(AVB)) = I((nAAnB)). [This is DeMorgan's Law]