ECE335 Summer 2019 - Lecture 13 Examples

Example 1: Prove that if $A \subseteq B$ and $A \not\subseteq C$, then $B \not\subseteq C$. Hint: Use quantifiers and conjunction.

Giru Cod A & B A & C A & C

Con $\forall x (x \in A \rightarrow x \in B)$ $\exists z (z \in B \land z \notin C)$ $\exists y (y \in A \land y \notin C)$

Let x & arb. troj + y= yo ?= 8.

Good XEA -> XEB ZOEB 1 ZO & C YO & A YO & C

Since x is arbitry, let x= yo

The since yo & A -> yo & B

But since yo & C if Zo=yo

=) yoeB lut do & c >> B & C