Exercise 10.1 We consider the ontology $\mathcal{O} = (\emptyset, T, \emptyset)$, with labelings of the axioms as follows:

$$T = \{ \quad A \subseteq A_1 \cap A_2, \quad T_1 \\
A_1 \subseteq B, \quad T_2 \\
B \subseteq C, \quad T_3 \\
A \subseteq \exists r.A, \quad T_4 \\
\exists r.A_2 \subseteq B \quad T_5 \}$$

(a) Transform the given ontology $\mathcal{O}$ into an ontology $\mathcal{O}'$, where the TBox is in normal form. Don't forget the labels!

(b) Compute a pinpointing formula for the consequence $A \subseteq C$ w.r.t. $\mathcal{O}$.