

Additional sample quiz question for class 17 (resolution for first-order logic)

Suppose our knowledge base consists only of the following two statements (copied from question 9.19 in the textbook):

$$\text{Ancestor}(\text{Mother}(x), x)$$

$$\text{Ancestor}(x, y) \wedge \text{Ancestor}(y, z) \Rightarrow \text{Ancestor}(x, z)$$

Use resolution to prove that $\text{Ancestor}(\text{Mother}(\text{Mother}(x)), x)$.